

# Permit to Operate

**FACILITY:** S-75

**EXPIRATION DATE** 08/31/2007

**LEGAL OWNER OR OPERATOR:** AES DELANO INC

**MAILING ADDRESS:** P O BOX 550  
DELANO, CA 93216

**FACILITY LOCATION:** 31500 POND RD  
DELANO, CA 93215

**FACILITY DESCRIPTION:** ELECTRIC SERVICES - POWER GENERATION

The Facility's Permit to Operate may include Facility-wide Requirements as well as requirements that apply to specific permit units.

The Permit to Operate remains valid through the permit expiration date listed above, subject to payment of annual permit fees and compliance with permit conditions and all applicable local, state, and federal regulations. This permit is valid only at the location specified above, and becomes void upon any transfer of ownership or location. Any modification of the equipment or operation, as defined in District Rule 2201, will require prior District approval. This permit shall be posted as prescribed in District Rule 2010.

**DAVID L. CROW**

Executive Director / APCO

**Seyed Sadredin**

Director of Permit Services

**Initial TV Permit**

**San Joaquin Valley**  
**Air Pollution Control District**

**PERMIT UNIT:** S-75-0-1

**EXPIRATION DATE:** 08/31/2007

**EQUIPMENT DESCRIPTION:**

## **PERMIT UNIT REQUIREMENTS**

1. The owner or operator shall notify the District of any breakdown condition as soon as reasonably possible, but no later than one hour after its detection, unless the owner or operator demonstrates to the District's satisfaction that the longer reporting period was necessary. [District Rule 1100, 6.1; Kern County Rule 110], [Federally Enforceable Through Title V]
2. The District shall be notified in writing within ten days following the correction of any breakdown condition. The breakdown notification shall include a description of the equipment malfunction or failure, the date and cause of the initial failure, the estimated emissions in excess of those allowed, and the methods utilized to restore normal operations. [District Rule 1100, 7.0; Kern County Rule 110], [Federally Enforceable Through Title V]
3. The owner or operator of any stationary source operation that emits more than 25 tons per year of nitrogen oxides or reactive organic compounds, shall provide the District annually with a written statement in such form and at such time as the District prescribes, showing actual emissions of nitrogen oxides and reactive organic compounds from that source. [District Rule 1160, 5.0], [Federally Enforceable Through Title V]
4. Any person building, altering or replacing any operation, article, machine, equipment, or other contrivance, the use of which may cause the issuance of air contaminants or the use of which may eliminate, reduce, or control the issuance of air contaminants, shall first obtain an Authority to Construct (ATC) from the District unless exempted by District Rule 2020 (3/21/02). [District Rule 2010, 3.0 and 4.0; and 2020], [Federally Enforceable Through Title V]
5. The permittee must comply with all conditions of the permit including permit revisions originated by the District. All terms and conditions of a permit that are required pursuant to the Clean Air Act (CAA), including provisions to limit potential to emit, are enforceable by the EPA and Citizens under the CAA. Any permit noncompliance constitutes a violation of the CAA and the District Rules and Regulations, and is grounds for enforcement action, for permit termination, revocation, reopening and reissuance, or modification; or for denial of a permit renewal application. [District Rules 2070, 7.0; 2080; and 2520, 9.9.1 and 9.13.1], [Federally Enforceable Through Title V]
6. A Permit to Operate or an Authority to Construct shall not be transferred unless a new application is filed with and approved by the District. [District Rule 2031], [Federally Enforceable Through Title V]
7. Every application for a permit required under Rule 2010 (12/17/92) shall be filed in a manner and form prescribed by the District. [District Rule 2040], [Federally Enforceable Through Title V]
8. The operator shall maintain records of required monitoring that include: 1) the date, place, and time of sampling or measurement; 2) the date(s) analyses were performed; 3) the company or entity that performed the analysis; 4) the analytical techniques or methods used; 5) the results of such analysis; and 6) the operating conditions at the time of sampling or measurement. [District Rule 2520, 9.4.1], [Federally Enforceable Through Title V]
9. The operator shall retain records of all required monitoring data and support information for a period of at least 5 years from the date of the monitoring sample, measurement, or report. Support information includes copies of all reports required by the permit and, for continuous monitoring instrumentation, all calibration and maintenance records and all original strip-chart recordings. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
10. The operator shall submit reports of any required monitoring at least every six months unless a different frequency is required by an applicable requirement. All instances of deviations from permit requirements must be clearly identified in such reports. [District Rule 2520, 9.5.1], [Federally Enforceable Through Title V]
11. Deviations from permit conditions must be promptly reported, including deviations attributable to upset conditions, as defined in the permit. For the purpose of this condition, promptly means as soon as reasonably possible, but no later than 10 days after detection. The report shall include the probable cause of such deviations, and any corrective actions or preventive measures taken. All required reports must be certified by a responsible official consistent with Section 10.0 of District Rule 2520 (6/21/01). [District Rules 2520, 9.5.2 and 1100, 7.0], [Federally Enforceable Through Title V]
12. If for any reason a permit requirement or condition is being challenged for its constitutionality or validity by a court of competent jurisdiction, the outcome of such challenge shall not affect or invalidate the remainder of the conditions or requirements in that permit. [District Rule 2520, 9.7], [Federally Enforceable Through Title V]

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13. It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of the permit. [District Rule 2520, 9.8.2], [Federally Enforceable Through Title V]
14. The permit may be modified, revoked, reopened and reissued, or terminated for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or a notification of planned changes or anticipated noncompliance does not stay any permit condition. [District Rule 2520, 9.8.3], [Federally Enforceable Through Title V]
15. The permit does not convey any property rights of any sort, or any exclusive privilege. [District Rule 2520, 9.8.4], [Federally Enforceable Through Title V]
16. The Permittee shall furnish to the District, within a reasonable time, any information that the District may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating the permit or to determine compliance with the permit. Upon request, the permittee shall also furnish to the District copies of records required to be kept by the permit or, for information claimed to be confidential, the permittee may furnish such records directly to EPA along with a claim of confidentiality. [District Rule 2520, 9.8.5], [Federally Enforceable Through Title V]
17. The permittee shall pay annual permit fees and other applicable fees as prescribed in Regulation III of the District Rules and Regulations. [District Rule 2520, 9.9], [Federally Enforceable Through Title V]
18. Upon presentation of appropriate credentials, a permittee shall allow an authorized representative of the District to enter the permittee's premises where a permitted source is located or emissions related activity is conducted, or where records must be kept under condition of the permit. [District Rule 2520, 9.13.2.1], [Federally Enforceable Through Title V]
19. Upon presentation of appropriate credentials, a permittee shall allow an authorized representative of the District to have access to and copy, at reasonable times, any records that must be kept under the conditions of the permit. [District Rule 2520, 9.13.2.2], [Federally Enforceable Through Title V]
20. Upon presentation of appropriate credentials, a permittee shall allow an authorized representative of the District to inspect at reasonable times any facilities, equipment, practices, or operations regulated or required under the permit. [District Rule 2520, 9.13.2.3], [Federally Enforceable Through Title V]
21. Upon presentation of appropriate credentials, a permittee shall allow an authorized representative of the District to sample or monitor, at reasonable times, substances or parameters for the purpose of assuring compliance with the permit or applicable requirements. [District Rule 2520, 9.13.2.4], [Federally Enforceable Through Title V]
22. No air contaminants shall be discharged into the atmosphere for a period or periods aggregating more than 3 minutes in any one hour which is as dark or darker than Ringelmann #1 or equivalent to 20% opacity and greater, unless specifically exempted by District Rule 4101 (11/15/01). If the equipment or operation is subject to a more stringent visible emission standard as prescribed in a permit condition, the more stringent visible emission limit shall supersede this condition. [District Rule 4101, and Kern County Rule 110], [Federally Enforceable Through Title V]
23. No person shall manufacture, blend, repackage, supply, sell, solicit or apply any architectural coating with a VOC content in excess of the corresponding limit specified in the Table of Standards of District Rule 4601 (10/31/01) for use or sale within the District. [District Rule 4601, 5.1], [Federally Enforceable Through Title V]
24. All VOC-containing materials for architectural coatings subject to District Rule 4601 (10/31/01) shall be stored in closed containers when not in use. [District Rule 4601, 5.4], [Federally Enforceable Through Title V]
25. The permittee shall comply with all the Labeling and Test Methods requirements outlined in Rule 4601 sections 6.1 and 6.3 (10/31/01). [District Rule 4601, 6.1 and 6.3], [Federally Enforceable Through Title V]
26. With each report or document submitted under a permit requirement or a request for information by the District or EPA, the permittee shall include a certification of truth, accuracy, and completeness by a responsible official. [District Rule 2520, 9.13.1 and 10.0], [Federally Enforceable Through Title V]
27. If the permittee performs maintenance on, or services, repairs, or disposes of appliances, the permittee shall comply with the standards for Recycling and Emissions Reduction pursuant to 40 CFR 82, Subpart F. [40 CFR 82 Subpart F], [Federally Enforceable Through Title V]
28. If the permittee performs service on motor vehicles when this service involves ozone-depleting refrigerants in the motor vehicle air conditioner (MVAC), the permittee shall comply with the standards for Servicing of Motor Vehicle Air Conditioners pursuant to all the applicable requirements as specified in 40 CFR 82, Subpart B. [40 CFR 82, Subpart B], [Federally Enforceable Through Title V]
29. Disturbances of soil related to any construction, demolition, excavation, or extraction activities shall comply with the requirements for fugitive dust control in District Rule 8021 unless specifically exempted under Section 4.0 of Rule 8021 (11/15/01) or Rule 8011 (11/15/01). [District Rule 8021 and 8011], [Federally Enforceable Through Title V]
30. Outdoor handling, storage and transport of any bulk material which emits dust shall comply with the requirements of District Rule 8031, unless specifically exempted under Section 4.0 of Rule 8031 (11/15/01) or Rule 8011 (11/15/01). [District Rule 8031 and 8011], [Federally Enforceable Through Title V]

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31. An owner/operator shall prevent or cleanup any carryout and trackout in accordance with the requirements of District Rule 8041 Section 5.0, unless specifically exempted under Section 4.0 of Rule 8041 (11/15/01) or Rule 8011 (11/15/01) [District Rule 8041 and 8011], [Federally Enforceable Through Title V]
32. Whenever open areas are disturbed or vehicles are used in open areas, the facility shall comply with the requirements of Section 5.0 of District Rule 8051, unless specifically exempted under Section 4.0 of Rule 8051 (11/15/01) or Rule 8011 (11/15/01). [District Rule 8051 and 8011], [Federally Enforceable Through Title V]
33. Any paved road or unpaved road shall comply with the requirements of District Rule 8061 unless specifically exempted under Section 4.0 of Rule 8061 (11/15/01) or Rule 8011 (11/15/01). [District Rule 8061 and 8011], [Federally Enforceable Through Title V]
34. Any unpaved vehicle/equipment area that anticipates more than 75 vehicle trips per day shall comply with the requirements of Section 5.1.1 of District Rule 8071. Any unpaved vehicle/equipment area that anticipates more than 100 vehicle trips per day shall comply with the requirements of Section 5.1.2 of District Rule 8071. All sources shall comply with the requirements of Section 5.0 of District Rule 8071 unless specifically exempted under Section 4.0 of Rule 8071 (11/15/01) or Rule 8011 (11/15/01). [District Rule 8071 and 8011], [Federally Enforceable Through Title V]
35. Any owner or operator of a demolition or renovation activity, as defined in 40 CFR 61.141, shall comply with the applicable inspection, notification, removal, and disposal procedures for asbestos containing materials as specified in 40 CFR 61.145 (Standard for Demolition and Renovation). [40 CFR 61 Subpart M], [Federally Enforceable Through Title V]
36. The permittee shall submit certifications of compliance with the terms and standards contained in Title V permits, including emission limits, standards and work practices, to the District and the EPA annually (or more frequently as specified in an applicable requirement or as specified by the District). The certification shall include the identification of each permit term or condition, the compliance status, whether compliance was continuous or intermittent, the methods used for determining the compliance status, and any other facts required by the District to determine the compliance status of the source. [District Rule 2520, 9.16], [Federally Enforceable Through Title V]
37. The permittee shall submit an application for Title V permit renewal to the District at least six months, but not greater than 18 months, prior to the permit expiration date. [District Rule 2520, 5.2], [Federally Enforceable Through Title V]
38. When a term is not defined in a Title V permit condition, the definition in the rule cited as the origin and authority for the condition in a Title V permit shall apply. [District Rule 2520, 9.1.1], [Federally Enforceable Through Title V]
39. On December 31, 2002, the initial Title V permit was issued. The reporting periods for the Report of Required Monitoring and the Compliance Certification Report are based upon this initial permit issuance date, unless alternative dates are approved by the District Compliance Division. These reports are due within 30 days after the end of the reporting period. [District Rule 2520], [Federally Enforceable Through Title V]
40. When applicable to 40 CFR Part 68, a subject facility shall submit to the proper authority a Risk Management Plan, and comply with all the requirements of Program 1, 2, or 3 when mandated by the regulation. [40 CFR Part 68], [Federally Enforceable Through Title V]
41. Facility shall comply with California Health and Safety Code Sections 44300 through 44384. [District Rule 4102 and California Health and Safety Code]
42. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]
43. All roads and roadways used by equipment associated with operation of boiler shall be paved and maintained in good condition at all times. [District NSR Rule], [Federally Enforceable Through Title V]
44. Particulate matter collected by fabric collectors shall be accumulated in closed containers and disposed of in a manner preventing entrainment in atmosphere. [District Rule 2201], [Federally Enforceable Through Title V]
45. Each fabric collector exhaust stack shall be equipped with adequate stack sampling provisions (ports, platform, ladder, etc.) consistent with EPA test methods pursuant to Rule 1081. [District Rule 1081], [Federally Enforceable Through Title V]

**Initial TV Permit**

**San Joaquin Valley**  
**Air Pollution Control District**

**PERMIT UNIT:** S-75-1-4

**EXPIRATION DATE:** 08/31/2007

**EQUIPMENT DESCRIPTION:**

FUEL RECEIVING, SCREENING & CONVEYING OPERATION #1 INCLUDING 60 TON CAPACITY TRUCK TIPPER PLATFORM, FUEL RECEIVING HOPPER W/INCLINED DRAG CONVEYOR & SPIKE ROLLER, AND 175 TON/HR FUEL TRANSFER CONVEYOR #1 WITH BELT SCALE SHARED W/S-75-2 (PHASE I)

## **PERMIT UNIT REQUIREMENTS**

1. Operation shall include ventilation system and fabric collector #2, with a minimum of 5,002 sq.ft. filter area and 100 hp exhaust fan (shared with S-75-2), serving truck tipper, fuel receiving hopper and inlet to the fuel transfer conveyor #1. [District NSR Rule], [Federally Enforceable Through Title V]
2. Fabric collector #2 shall include 5 hp blower motor, rotary valve and auger. [District NSR Rule], [Federally Enforceable Through Title V]
3. Operation shall include belt type magnetic separator and magnetic separator take away conveyor, both shared with S-75-2. [District NSR Rule], [Federally Enforceable Through Title V]
4. Operation shall include disk type scalping screen and swing hammer type hog, both shared with S-75-2 and vented to fabric collector #4. [District NSR Rule], [Federally Enforceable Through Title V]
5. Operation shall include ventilation system and fabric collector #4, with minimum of 2,509 sq. ft. filter area and 60 hp exhaust fan (shared with S-75-2 & S-75-5), serving disk type scalping screen, swing hammer type hog, and discharge of fuel transfer conveyor #1. [District NSR Rule], [Federally Enforceable Through Title V]
6. Fabric collector #4 shall include 3 hp blower motor, rotary valve and auger. [District NSR Rule], [Federally Enforceable Through Title V]
7. Operation shall include 186 ton/hr capacity hog outfeed conveyor #2 (shared with S-75-2). [District NSR Rule], [Federally Enforceable Through Title V]
8. Operation shall include 186 ton/hr capacity fixed stacker conveyor #3, two position diverter gate, telescopic spout with dust pick-up shroud and water spray ring (shared with S-75-2). [District NSR Rule], [Federally Enforceable Through Title V]
9. Operation shall include 186 ton/hr capacity stacker infeed conveyor #4, and 186 ton/hr capacity radial stacker conveyor #5 with telescopic spout with dust pickup and water spray ring (shared with S-75-2). [District NSR Rule], [Federally Enforceable Through Title V]
10. Operation shall include ventilation system with fabric collector #3 serving items listed in conditions 8, 9 and head of item 7 with a minimum of 3,263 sq.ft. filter area and 125 hp exhaust fan (shared with S-75-2). [District NSR Rule], [Federally Enforceable Through Title V]
11. Fabric collector #3 shall include 3 hp blower motor, rotary valve and auger. [District NSR Rule], [Federally Enforceable Through Title V]
12. There shall be no visible emissions of 5% opacity or greater from truck tipper receiving hopper ventilation pickup points. [District NSR Rule], [Federally Enforceable Through Title V]
13. Truck tipper receiving hopper ventilation hood and hog ventilation hoods shall provide minimum indraft velocity of 200 ft/min during entire truck unloading/screening operation. [District NSR Rule], [Federally Enforceable Through Title V]
14. Truck tipper receiving hopper drag chain conveyor transfer point hood shall provide minimum indraft velocity of 150 ft/min during entire truck unloading and fuel transfer to take away belt conveyor. [District NSR Rule], [Federally Enforceable Through Title V]
15. Truck tipper area ventilation system shall be equipped with interlocks and isolation valves which directs all air flow through operating truck tipper and prevents simultaneous operation of truck tippers. [District NSR Rule], [Federally Enforceable Through Title V]
16. Conveyor belt ventilation hood(s) shall provide minimum indraft velocity of 500 cfm/ft of belt width during entire truck unloading/screening operation. [District NSR Rule], [Federally Enforceable Through Title V]
17. Scalping screen ventilation hood(s) shall provide minimum indraft velocity of 50 ft/min during entire truck unloading/screening operation. [District NSR Rule], [Federally Enforceable Through Title V]
18. Truck tipper fabric collector #2 shall have minimum filter area of 5,002 sq. ft. and maximum air-to-cloth ratio of 8 ft/min. [District NSR Rule], [Federally Enforceable Through Title V]

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19. Scalping screen/hog area ventilation system shall be equipped with isolation valve which prevents air flow from primary screen and hog when this equipment is not in operation. [District NSR Rule], [Federally Enforceable Through Title V]
20. Scalping screen/hog area fabric collector #4 shall have minimum filter area of 2,509 sq. ft. and maximum air-to-cloth ratio of 8 ft/min. [District NSR Rule], [Federally Enforceable Through Title V]
21. Stacker/reclaimer area fabric collector #3 shall have minimum filter area of 3,263 sq. ft. and maximum air-to-cloth ratio of 8.2 ft/min. [District NSR Rule], [Federally Enforceable Through Title V]
22. Each fabric collector shall be equipped with adjustable automatic reverse pulse filter cleaning mechanism and operational differential pressure indicator. [District NSR Rule], [Federally Enforceable Through Title V]
23. Each fabric collector exhaust stack shall be equipped with adequate stack sampling provisions (ports, platform, ladder, etc.) consistent with EPA test methods pursuant to Rule 1081. [District Rule 1081], [Federally Enforceable Through Title V]
24. Particulate matter collected by fabric collectors shall be stored in closed containers when such material is not actively being returned to the boiler via permitted conveying equipment. [District NSR Rule], [Federally Enforceable Through Title V]
25. Variable height radial stacker, auxiliary stacker and reclaimers shall be ventilated to fabric collector, and discharge from stacker spouts shall be maintained as close as possible to top of storage pile. [District NSR Rule], [Federally Enforceable Through Title V]
26. Radial and auxiliary stackers shall be equipped with water spray rings which shall be operated whenever material is transferred through stacker. [District NSR Rule], [Federally Enforceable Through Title V]
27. All ventilation system ducts shall be sized for minimum duct transport velocity of 3,200 ft/min. [District NSR Rule], [Federally Enforceable Through Title V]
28. Deliveries of fuel shall not exceed 144 truck loads per day. [District NSR Rule], [Federally Enforceable Through Title V]
29. Maximum average bin clearing time for each truck tipper operation shall not exceed 10 minutes per load. [District NSR Rule], [Federally Enforceable Through Title V]
30. Drag chain transfer, point hood ventilation system and fabric collector shall operate whenever material is being transferred out of receiving bin. [District NSR Rule], [Federally Enforceable Through Title V]
31. There shall be no visible emissions of 5% opacity or greater from truck tipper receiving hopper during entire unloading operation. [District NSR Rule], [Federally Enforceable Through Title V]
32. Truck tipper receiving hopper, ventilation hood system and fabric collector #2 shall be operated whenever material is being transferred into the hopper. [District NSR Rule], [Federally Enforceable Through Title V]
33. There shall be no visible emissions of 5% opacity or greater from conveyor transfer points, scalping screen, and hog enclosures, including inlet and outlet openings. [District NSR Rule], [Federally Enforceable Through Title V]
34. Scalping screen/hog area fabric collector #4 shall be operated whenever material is being transferred from fuel receiving operations or storage pile to boiler. [District NSR Rule], [Federally Enforceable Through Title V]
35. Stacker/reclaimer area fabric collector #3 shall be operated whenever material is being transferred to or from storage piles. [District NSR Rule], [Federally Enforceable Through Title V]
36. Auxiliary stacker shall not operate when radial stacker is in operation. [District NSR Rule], [Federally Enforceable Through Title V]
37. Fuel transfer conveyor shall be fully enclosed and covers shall be in place whenever conveyors are operating. [District NSR Rule], [Federally Enforceable Through Title V]
38. Radial stacker telescoping discharge spout height shall be continuously adjusted to minimize material drop distance to pile. [District NSR Rule], [Federally Enforceable Through Title V]
39. Material to stacker shall contain no more than 3% by weight of fines capable of passing through 200 mesh screen. [District NSR Rule], [Federally Enforceable Through Title V]
40. Any stored fuel which is burning shall be immediately segregated and extinguished. [District Rule 4102 and District NSR Rule], [Federally Enforceable Through Title V]
41. Records of types, amounts and origins (including distance from facility, copies of all purchase contracts, # of trucks, etc.) of offset fuels received shall be maintained and made readily available for District inspection upon request. [District NSR Rule], [Federally Enforceable Through Title V]
42. Air flow to fabric collector #2 shall not exceed 40,000 cfm and Particulate (PM-10) emissions from fabric filter #2 shall not exceed 0.0045 gr/scf. [District NSR Rule], [Federally Enforceable Through Title V]

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43. Air flow to fabric collectors 3 and 4 shall not exceed 20,000 and 26,600 cfm respectively, and Particulate (PM-10) emissions from fabric collectors shall not exceed 0.004 gr/scf. [District NSR Rule], [Federally Enforceable Through Title V]
44. Fugitive particulate (PM-10) emissions from fuel storage piles shall not exceed 1.32 lbm PM-10/hr. [District NSR Rule], [Federally Enforceable Through Title V]
45. Particulate matter collected by fabric collector shall be disposed of in a manner preventing entrainment in atmosphere. [District NSR Rule], [Federally Enforceable Through Title V]
46. Wood waste delivery trucks shall remain covered during entire unloading operation. [District NSR Rule], [Federally Enforceable Through Title V]
47. Operator shall record the daily number of fuel delivery truck loads. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
48. Operator shall record percentage of fines (passing #200 screen) in the material to the stacker. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
49. Visible emissions from fabric collectors shall be inspected monthly during operation. If visible emissions are observed, corrective action shall be taken to eliminate visible emissions. If visible emissions cannot be corrected within 24 hours, a visible emissions test using EPA Method 9 shall be conducted. [District Rule 2520, 9.3.2], [Federally Enforceable Through Title V]
50. Visible emissions from truck tipper receiving hopper ventilation pickup points, conveyor transfer points, scalping screens, and hog enclosures (including inlet and outlet openings) shall be inspected quarterly during operation. If visible emissions are observed, corrective action shall be taken to eliminate visible emissions. If visible emissions cannot be corrected within 24 hours, a visible emissions test using EPA Method 9 shall be conducted. [District Rule 2520, 9.3.2], [Federally Enforceable Through Title V]
51. Dust collector system shall be thoroughly inspected annually for any evidence of particulate matter leaks and shall be repaired as needed. [District Rule 2520, 9.3.2], [Federally Enforceable Through Title V]
52. Dust collector filters shall be thoroughly inspected at least annually when the unit is not in operation for tears, scuffs, abrasions, holes or any evidence of particulate matter leaks and shall be replaced as needed. [District Rule 2520, 9.3.2], [Federally Enforceable Through Title V]
53. Records of dust collector maintenance, inspections, and repair shall be maintained. The records shall include identification of the equipment, date of inspection, corrective action taken, and identification of the individual performing the inspection. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
54. Particulate matter emissions shall not exceed the hourly rate as calculated in District Rule 4202 using the equation  $E = 3.59 \times P^{0.62}$ ; P is less than or equal to 30 tons per hour, or  $E = 17.37 \times P^{0.16}$ ; P is greater than 30 tons per hour. [District Rule 4202], [Federally Enforceable Through Title V]
55. Particulate matter emissions shall not exceed 0.1 gr/dscf in concentration. [District Rule 4201 and Kern County Rule 404], [Federally Enforceable Through Title V]

**Initial TV Permit**

**San Joaquin Valley**  
**Air Pollution Control District**

**PERMIT UNIT:** S-75-2-4

**EXPIRATION DATE:** 08/31/2007

**EQUIPMENT DESCRIPTION:**

FUEL RECEIVING, SCREENING & CONVEYING OPERATION #2 INCLUDING 60 TON CAPACITY TRUCK TIPPER PLATFORM, FUEL RECEIVING HOPPER W INCLINED DRAG CONVEYOR 7 SPIKE ROLLER, AND 175 TON/HR FUEL TRANSFER CONVEYOR #1 WITH BELT SCALE SHARED WITH S-75-1 (PHASE I)

## **PERMIT UNIT REQUIREMENTS**

1. Operation shall include ventilation system and fabric collector #2, with a minimum of 5,002 sq.ft. filter area and 100 hp exhaust fan (shared with S-75-2), serving truck tipper, fuel receiving hopper and inlet to the fuel transfer conveyor #1. [District NSR Rule], [Federally Enforceable Through Title V]
2. Fabric collector #2 shall include 5 hp blower motor, rotary valve and auger. [District NSR Rule], [Federally Enforceable Through Title V]
3. Operation shall include belt type magnetic separator and magnetic separator take away conveyor, both shared with S-75-2. [District NSR Rule], [Federally Enforceable Through Title V]
4. Operation shall include disk type scalping screen and swing hammer type hog, both shared with S-75-2 and vented to fabric collector #4. [District NSR Rule], [Federally Enforceable Through Title V]
5. Operation shall include ventilation system and fabric collector #4, with minimum of 2,509 sq. ft. filter area and 60 hp exhaust fan (shared with S-75-2 & S-75-5), serving disk type scalping screen, swing hammer type hog, and discharge of fuel transfer conveyor #1. [District NSR Rule], [Federally Enforceable Through Title V]
6. Fabric collector #4 shall include 3 hp blower motor, rotary valve and auger. [District NSR Rule], [Federally Enforceable Through Title V]
7. Operation shall include 186 ton/hr capacity hog outfeed conveyor #2 (shared with S-75-2). [District NSR Rule], [Federally Enforceable Through Title V]
8. Operation shall include 186 ton/hr capacity fixed stacker conveyor #3, two position diverter gate, telescopic spout with dust pick-up shroud and water spray ring (shared with S-75-2). [District NSR Rule], [Federally Enforceable Through Title V]
9. Operation shall include 186 ton/hr capacity stacker infeed conveyor #4, and 186 ton/hr capacity radial stacker conveyor #5 with telescopic spout with dust pickup and water spray ring (shared with S-75-2). [District NSR Rule], [Federally Enforceable Through Title V]
10. Operation shall include ventilation system with fabric collector #3 serving items listed in conditions 8, 9 and head of item 7 with a minimum of 3,263 sq.ft. filter area and 125 hp exhaust fan (shared with S-75-2). [District NSR Rule], [Federally Enforceable Through Title V]
11. Fabric collector #3 shall include 3 hp blower motor, rotary valve and auger. [District NSR Rule], [Federally Enforceable Through Title V]
12. There shall be no visible emissions of 5% opacity or greater from truck tipper receiving hopper ventilation pickup points. [District NSR Rule], [Federally Enforceable Through Title V]
13. Truck tipper receiving hopper ventilation hood and hog ventilation hoods shall provide minimum indraft velocity of 200 ft/min during entire truck unloading/screening operation. [District NSR Rule], [Federally Enforceable Through Title V]
14. Truck tipper receiving hopper drag chain conveyor transfer point hood shall provide minimum indraft velocity of 150 ft/min during entire truck unloading and fuel transfer to take away belt conveyor. [District NSR Rule], [Federally Enforceable Through Title V]
15. Truck tipper area ventilation system shall be equipped with interlocks and isolation valves which directs all air flow through operating truck tipper and prevents simultaneous operation of truck tippers. [District NSR Rule], [Federally Enforceable Through Title V]
16. Conveyor belt ventilation hood(s) shall provide minimum indraft velocity of 500 cfm/ft of belt width during entire truck unloading/screening operation. [District NSR Rule], [Federally Enforceable Through Title V]
17. Scalping screen ventilation hood(s) shall provide minimum indraft velocity of 50 ft/min during entire truck unloading/screening operation. [District NSR Rule], [Federally Enforceable Through Title V]
18. Truck tipper fabric collector #2 shall have minimum filter area of 5,002 sq. ft. and maximum air-to-cloth ratio of 8 ft/min. [District NSR Rule], [Federally Enforceable Through Title V]



## Initial TV Permit

19. Scalping screen/hog area ventilation system shall be equipped with isolation valve which prevents air flow from primary screen and hog when this equipment is not in operation. [District NSR Rule], [Federally Enforceable Through Title V]
20. Scalping screen/hog area fabric collector #4 shall have minimum filter area of 2,509 sq. ft. and maximum air-to-cloth ratio of 8 ft/min. [District NSR Rule], [Federally Enforceable Through Title V]
21. Stacker/reclaimer area fabric collector #3 shall have minimum filter area of 3,263 sq. ft. and maximum air-to-cloth ratio of 8.2 ft/min. [District NSR Rule], [Federally Enforceable Through Title V]
22. Each fabric collector shall be equipped with adjustable automatic reverse pulse filter cleaning mechanism and operational differential pressure indicator. [District NSR Rule], [Federally Enforceable Through Title V]
23. Each fabric collector exhaust stack shall be equipped with adequate stack sampling provisions (ports, platform, ladder, etc.) consistent with EPA test methods pursuant to Rule 1081. [District Rule 1081], [Federally Enforceable Through Title V]
24. Particulate matter collected by fabric collectors shall be stored in closed containers when such material is not actively being returned to the boiler via permitted conveying equipment. [District NSR Rule], [Federally Enforceable Through Title V]
25. Variable height radial stacker, auxiliary stacker and reclaimers shall be ventilated to fabric collector, and discharge from stacker spouts shall be maintained as close as possible to top of storage pile. [District NSR Rule], [Federally Enforceable Through Title V]
26. Radial and auxiliary stackers shall be equipped with water spray rings which shall be operated whenever material is transferred through stacker. [District NSR Rule], [Federally Enforceable Through Title V]
27. All ventilation system ducts shall be sized for minimum duct transport velocity of 3,200 ft/min. [District NSR Rule], [Federally Enforceable Through Title V]
28. Deliveries of fuel shall not exceed 144 truck loads per day. [District NSR Rule], [Federally Enforceable Through Title V]
29. Maximum average bin clearing time for each truck tipper operation shall not exceed 10 minutes per load. [District NSR Rule], [Federally Enforceable Through Title V]
30. Drag chain transfer, point hood ventilation system and fabric collector shall operate whenever material is being transferred out of receiving bin. [District NSR Rule], [Federally Enforceable Through Title V]
31. There shall be no visible emissions of 5% opacity or greater from truck tipper receiving hopper during entire unloading operation. [District NSR Rule], [Federally Enforceable Through Title V]
32. Truck tipper receiving hopper, ventilation hood system and fabric collector #2 shall be operated whenever material is being transferred into the hopper. [District NSR Rule], [Federally Enforceable Through Title V]
33. There shall be no visible emissions of 5% opacity or greater from conveyor transfer points, scalping screen, and hog enclosures, including inlet and outlet openings. [District NSR Rule], [Federally Enforceable Through Title V]
34. Scalping screen/hog area fabric collector #4 shall be operated whenever material is being transferred from fuel receiving operations or storage pile to boiler. [District NSR Rule], [Federally Enforceable Through Title V]
35. Stacker/reclaimer area fabric collector #3 shall be operated whenever material is being transferred to or from storage piles. [District NSR Rule], [Federally Enforceable Through Title V]
36. Auxiliary stacker shall not operate when radial stacker is in operation. [District NSR Rule], [Federally Enforceable Through Title V]
37. Fuel transfer conveyor shall be fully enclosed and covers shall be in place whenever conveyors are operating. [District NSR Rule], [Federally Enforceable Through Title V]
38. Radial stacker telescoping discharge spout height shall be continuously adjusted to minimize material drop distance to pile. [District NSR Rule], [Federally Enforceable Through Title V]
39. Material to stacker shall contain no more than 3% by weight of fines capable of passing through 200 mesh screen. [District NSR Rule], [Federally Enforceable Through Title V]
40. Any stored fuel which is burning shall be immediately segregated and extinguished. [District NSR Rule], [Federally Enforceable Through Title V]
41. Records of types, amounts and origins (including distance from facility, copies of all purchase contracts, # of trucks, etc.) of offset fuels received shall be maintained and made readily available for District inspection upon request. [District NSR Rule], [Federally Enforceable Through Title V]
42. Facility shall comply with California Health and Safety Code Sections 44300 through 44384. [District Rule 4102 and CH&SC]
43. Air flow to fabric collector #2 shall not exceed 40,000 cfm and Particulate (PM-10) emissions from fabric filter #2 shall not exceed 0.0045 gr/scf. [District NSR Rule], [Federally Enforceable Through Title V]

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44. Air flow to fabric collectors 3 and 4 shall not exceed 20,000 and 26,600 cfm respectively, and Particulate (PM-10) emissions from fabric collectors shall not exceed 0.004 gr/scf. [District NSR Rule], [Federally Enforceable Through Title V]
45. Fugitive particulate (PM-10) emissions from fuel storage piles shall not exceed 1.32 lbm PM-10/hr. [District NSR Rule], [Federally Enforceable Through Title V]
46. Particulate matter collected by fabric collector shall be disposed of in a manner preventing entrainment in atmosphere. [District NSR Rule], [Federally Enforceable Through Title V]
47. Wood waste delivery trucks shall remain covered during entire unloading operation. [District NSR Rule], [Federally Enforceable Through Title V]
48. Operator shall record the daily number of fuel delivery truck loads. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
49. Operator shall record percentage of fines (passing #200 screen) in the material to the stacker. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
50. Visible emissions from fabric collectors shall be inspected monthly during operation. If visible emissions are observed, corrective action shall be taken to eliminate visible emissions. If visible emissions cannot be corrected within 24 hours, a visible emissions test using EPA Method 9 shall be conducted. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
51. Visible emissions from truck tipper receiving hopper ventilation pickup points, conveyor transfer points, scalping screens, and hog enclosures (including inlet and outlet openings) shall be inspected quarterly during operation. If visible emissions are observed, corrective action shall be taken to eliminate visible emissions. If visible emissions cannot be corrected within 24 hours, a visible emissions test using EPA Method 9 shall be conducted. [District Rule 2520, 9.3.2], [Federally Enforceable Through Title V]
52. Dust collector system shall be thoroughly inspected annually for any evidence of particulate matter leaks and shall be repaired as needed. [District Rule 2520, 9.3.2], [Federally Enforceable Through Title V]
53. Dust collector filters shall be thoroughly inspected at least annually when the unit is not in operation for tears, scuffs, abrasions, holes, or any evidence of particulate matter leaks and shall be replaced as needed. [District Rule 2520, 9.3.2], [Federally Enforceable Through Title V]
54. Records of dust collector maintenance, inspections, and repair shall be maintained. The records shall include identification of the equipment, date of inspection, corrective action taken, and identification of the individual performing the inspection. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
55. Particulate matter emissions shall not exceed the hourly rate as calculated in District Rule 4202 using the equation  $E = 3.59 \times P^{0.62}$ ; P is less than or equal to 30 tons per hour, or  $E = 17.37 \times P^{0.16}$ ; P is greater than 30 tons per hour. [District Rule 4202], [Federally Enforceable Through Title V]
56. Particulate matter emissions shall not exceed 0.1 gr/dscf in concentration. [District Rule 4201 and Kern County Rule 404], [Federally Enforceable Through Title V]

**Initial TV Permit**

**San Joaquin Valley**  
**Air Pollution Control District**

**PERMIT UNIT:** S-75-3-5

**EXPIRATION DATE:** 08/31/2007

**EQUIPMENT DESCRIPTION:**

4,400 GALLON LIMESTONE STORAGE SILO (UNIT #1), WITH VAPOR SPACE TIED IN COMMON WITH SAND SILO PTO 75-4, INCLUDING BIN VENT FILTER WITH 95 SQUARE FOOT FILTER AREA, 1 HP EXHAUST FAN, 1/4 HP BAG SHAKER MOTOR, AND PRODUCT CONVEYING BLOWER.

## **PERMIT UNIT REQUIREMENTS**

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1. Storage silo shall vent through bin vent filters located on sand storage silo S-75-3 and limestone storage silo S-75-4. [District NSR Rule], [Federally Enforceable Through Title V]
2. Bin vent filters located on PTO S-75-3 and S-75-4 shall both be in operation and utilized when silo is being filled. [District NSR Rule], [Federally Enforceable Through Title V]
3. Limestone bin vent filter shall have a maximum air to cloth ratio of 8.54 ft./min and minimum filter area of 95 square feet. [District NSR Rule], [Federally Enforceable Through Title V]
4. Bin vent filter shall be equipped with mechanical shaker mechanism. [District NSR Rule], [Federally Enforceable Through Title V]
5. Bin vent filter shall be equipped with operational differential pressure indicator. [District NSR Rule], [Federally Enforceable Through Title V]
6. Only crushed limestone shall be handled. [District NSR Rule], [Federally Enforceable Through Title V]
7. Material collected by bin vent filter shall fall by gravity into storage silo. [District NSR Rule], [Federally Enforceable Through Title V]
8. There shall be no emissions in excess of 5% opacity from silo bin vent filter exhaust stack. [District NSR Rule], [Federally Enforceable Through Title V]
9. Silo shall not receive more than 25 tons/day of product and particulate matter (PM10) emissions shall not exceed 0.024 lbs/ton loaded. [District NSR Rule], [Federally Enforceable Through Title V]
10. Permittee shall keep records of amounts and size of limestone received and make such records readily available for District inspection upon request. [District NSR Rule and District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
11. Visible emissions shall be inspected quarterly during operation. If visible emissions are observed, corrective action shall be taken to eliminate visible emissions. If visible emissions cannot be corrected within 24 hours, a visible emissions test using EPA Method 9 shall be conducted. [District Rule 2520, 9.3.2], [Federally Enforceable Through Title V]
12. Permittee shall perform a complete vent filter inspection on an annual basis. Dust collector filters shall be inspected thoroughly for tears, scuffs, abrasions, holes, or any evidence of particulate matter breakthrough and shall be replaced as needed. [District Rule 2520, 9.3.2], [Federally Enforceable Through Title V]
13. Dust collector filters shall be thoroughly inspected at least annually when the unit is not in operation for tears, scuffs, abrasions, holes or any evidence of particulate matter leaks and shall be replaced as needed. [District Rule 2520, 9.3.2], [Federally Enforceable Through Title V]
14. Records of dust collector maintenance, inspections, and repair shall be maintained. The records shall include identification of the equipment, date of inspection, corrective action taken, and identification of the individual performing the inspection. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
15. Particulate matter emissions shall not exceed 0.1 gr/dscf in concentration. [District Rule 4201 and Kern County Rule 404], [Federally Enforceable Through Title V]

**Initial TV Permit**

**San Joaquin Valley**  
**Air Pollution Control District**

**PERMIT UNIT:** S-75-4-5

**EXPIRATION DATE:** 08/31/2007

**EQUIPMENT DESCRIPTION:**

65,828 GALLON SAND STORAGE (UNIT # 1) SILO, WITH VAPOR SPACE TIED COMMON WITH LIMESTONE SILO PTO S-75-3, INCLUDING BIN VENT FILTER WITH 120 SQ.FT. FILTER AREA, 1 HP EXHAUST FAN AND 1/4 HP BAG SHAKER MOTOR.

## **PERMIT UNIT REQUIREMENTS**

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1. Storage silo shall vent through bin vent filters located on sand storage silo S-75-3 and limestone storage silo S-75-4. [District NSR Rule], [Federally Enforceable Through Title V]
2. Bin vent filters located on PTO S-75-3 and S-75-4 shall both be in operation and utilized when silo is being filled. [District NSR Rule], [Federally Enforceable Through Title V]
3. Sand storage silo bin vent filter shall have a maximum air to cloth ratio of 8 ft./min and minimum filter area of 120 square feet. [District NSR Rule], [Federally Enforceable Through Title V]
4. Bin vent filter shall be equipped with mechanical shaker mechanism. [District NSR Rule], [Federally Enforceable Through Title V]
5. Bin vent filter shall be equipped with operational differential pressure indicator. [District NSR Rule], [Federally Enforceable Through Title V]
6. Material collected by bin vent filter shall fall by gravity into storage silo. [District NSR Rule], [Federally Enforceable Through Title V]
7. There shall be no emissions in excess of 5% opacity from silo bin vent filter exhaust stack. [District NSR Rule], [Federally Enforceable Through Title V]
8. Silo shall not receive more than 25 tons/day of product and particulate matter emissions (PM10) shall not exceed 0.024 lbs/ton loaded. [District NSR Rule], [Federally Enforceable Through Title V]
9. Permittee shall keep records of amounts and size of limestone received for a period of five years and make such records readily available for District inspection upon request. [District NSR Rule and District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
10. Visible emissions shall be inspected quarterly during operation. If visible emissions are observed, corrective action shall be taken to eliminate visible emissions. If visible emissions cannot be corrected within 24 hours, a visible emissions test using EPA Method 9 shall be conducted. [District Rule 2520, 9.3.2], [Federally Enforceable Through Title V]
11. Permittee shall perform a complete vent filter inspection on an annual basis. Dust collector filters shall be inspected thoroughly for tears, scuffs, abrasions, holes, or any evidence of particulate matter breakthrough and shall be replaced as needed. [District Rule 2520, 9.3.2], [Federally Enforceable Through Title V]
12. Dust collector filters shall be thoroughly inspected at least annually when the unit is not in operation for tears, scuffs, abrasions, holes or any evidence of particulate matter leaks and shall be replaced as needed. [District Rule 2520, 9.3.2], [Federally Enforceable Through Title V]
13. Records of dust collector maintenance, inspections, and repair shall be maintained. The records shall include identification of the equipment, date of inspection, corrective action taken, and identification of the individual performing the inspection. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
14. Particulate matter emissions shall not exceed 0.1 gr/dscf in concentration. [District Rule 4201 and Kern County Rule 404], [Federally Enforceable Through Title V]

## Initial TV Permit

# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** S-75-5-3

**EXPIRATION DATE:** 08/31/2007

**EQUIPMENT DESCRIPTION:**

FUEL RECLAMATION, CONVEYING AND SCREENING OPERATION INCLUDING 45 TON/HR TRAVELING VARIABLE HEIGHT FUEL RECLAIMER WITH WATER SPRAY SYSTEM, RECLAIMER FEED TABLE, RECLAIMER CONVEYOR #6, AND AUXILIARY FUEL RECLAIM HOPPER (PHASE I)

## PERMIT UNIT REQUIREMENTS

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1. Operation shall include secondary feed conveyor #7 with belt scale, belt type magnetic separators, secondary disk type scalping screen, boiler feed conveyor #8, oversize conveyor #10 and distribution drag conveyor. [District NSR Rule], [Federally Enforceable Through Title V]
2. Operation shall include fuel abort bunker. [District NSR Rule], [Federally Enforceable Through Title V]
3. Operation shall include overfeed return conveyor #9 [District NSR Rule], [Federally Enforceable Through Title V]
4. Operation shall include fabric collector #3 (125 hp fan and 3,263 sq. ft. minimum filtering area) serving transfer point from reclaimer feed table, auxiliary fuel reclaim hopper inlet, and reclaim conveyor #6 shared with S-75-1 and '-2. [District NSR Rule], [Federally Enforceable Through Title V]
5. Operation shall include fabric collector #1 (25 hp fan and 750 sq. ft. minimum filtering area) serving head of boiler feed conveyor #8, inlet to secondary disk scalping screen and fuel abort bunker. [District NSR Rule], [Federally Enforceable Through Title V]
6. Operation shall include fabric collector #4 (60 hp fan and 2509 sq. ft. min. filter area) serving discharge from conveyor #7, belt separator, inlet to fixed separator and discharge from secondary disk scalping screen shared with S-75-1 and '-2. [District NSR Rule], [Federally Enforceable Through Title V]
7. There shall be no emissions in excess of 5% opacity from storage pile during reclamation operation. [District NSR Rule], [Federally Enforceable Through Title V]
8. There shall be no emissions in excess of 5% opacity from conveyor transfer points, scalping screen, fuel storage bin inlet and outlet. [District NSR Rule], [Federally Enforceable Through Title V]
9. Fabric collector #4 shall be operated whenever material is being transferred from fuel reclamation operation. [District NSR Rule], [Federally Enforceable Through Title V]
10. Fabric collector #1 shall be operated whenever material is being transferred from fuel reclamation operation. [District NSR Rule], [Federally Enforceable Through Title V]
11. Fuel transfer conveyors shall be fully enclosed and covers shall be in place whenever conveyors are operating. [District NSR Rule], [Federally Enforceable Through Title V]
12. Conveyor belt ventilation hoods shall be designed to provide a minimum indraft velocity of 500 cfm/ft of belt width during entire truck unloading/screening operation. [District NSR Rule], [Federally Enforceable Through Title V]
13. Fabric collector #1 shall have a minimum filtering area of 750 sq. ft. and a air to cloth ratio of 8 ft./min. [District NSR Rule], [Federally Enforceable Through Title V]
14. Each fabric collector shall be equipped with automatic, adjustable, reverse pulse filter cleaning mechanism. [District NSR Rule], [Federally Enforceable Through Title V]
15. Each fabric collector shall be equipped with operational differential pressure indicator. [District NSR Rule], [Federally Enforceable Through Title V]
16. Each fabric collector shall be equipped adequate stack sampling provisions (ports, platform, ladder, etc.) consistent with EPA test methods. [District Rule 1081], [Federally Enforceable Through Title V]
17. Particulate matter collected by fabric collectors shall be disposed of in a manner preventing entrainment in the atmosphere. [District NSR Rule], [Federally Enforceable Through Title V]
18. All ventilation system ducts shall be sized for minimum duct transport velocity of 3,200 ft/min. [District NSR Rule], [Federally Enforceable Through Title V]

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19. All access roads and roadways associated with fuel reclamation operation shall be paved and maintained in good condition at all times. [District NSR Rule], [Federally Enforceable Through Title V]
20. Permittee shall keep accurate records of material conveyed to fuel storage bin and make such records readily available for District inspection upon request. [District NSR Rule], [Federally Enforceable Through Title V]
21. The maximum emission rate of PM-10 from fabric collector #1 shall not exceed 0.21 lb/hr. [District NSR Rule], [Federally Enforceable Through Title V]
22. Particulate matter emissions shall not exceed 0.004 grains/dscf in concentration. [District NSR Rule and District Rule 4201], [Federally Enforceable Through Title V]
23. Visible emissions shall be inspected quarterly during operation. If visible emissions are observed, corrective action shall be taken to eliminate visible emissions. If visible emissions cannot be corrected within 24 hours, a visible emissions test using EPA Method 9 shall be conducted. [District Rule 2520, 9.3.2], [Federally Enforceable Through Title V]
24. Dust collector system shall be thoroughly inspected annually for any evidence of particulate matter leaks and shall be repaired as needed. [District Rule 2520, 9.3.2], [Federally Enforceable Through Title V]
25. Dust collector filters shall be thoroughly inspected at least annually when the unit is not in operation for tears, scuffs, abrasions, holes, or any evidence of particulate matter leaks and shall be replaced as needed. [District Rule 2520, 9.3.2], [Federally Enforceable Through Title V]
26. Records of dust collector maintenance, inspections, and repair shall be maintained. The records shall include identification of the equipment, date of inspection, corrective action taken, and identification of the individual performing the inspection. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
27. Particulate matter emissions shall not exceed the hourly rate as calculated in District Rule 4202 using the equation  $E = 3.59 \times P^{0.62}$ ; P is less than or equal to 30 tons per hour, or  $E = 17.37 \times P^{0.16}$ ; P is greater than 30 tons per hour. [District Rule 4202], [Federally Enforceable Through Title V]
28. Particulate matter emissions shall not exceed 0.1 gr/dscf in concentration. [District Rule 4201 and Kern County Rule 404], [Federally Enforceable Through Title V]

**Initial TV Permit**

**San Joaquin Valley**  
**Air Pollution Control District**

**PERMIT UNIT:** S-75-6-15

**EXPIRATION DATE:** 08/31/2007

**EQUIPMENT DESCRIPTION:**

400 MMBTU/HR EPI FLUIDIZED BUBBLING BED, BIOMASS-FUELED BOILER (UNIT #1) WITH NH<sub>3</sub>, LIMESTONE AND SAND INJECTION, WITH BOILER EXHAUST VENTED TO MULTICLONES AND FABRIC FILTER

**PERMIT UNIT REQUIREMENTS**

1. 15 MMBtu/hr natural gas-fired boiler start-up burner shall be of "low-NOx" design utilizing staged combustion principles. [District NSR Rule], [Federally Enforceable Through Title V]
2. Boiler shall be equipped with two model ABB steam turbines powering a 32 MW (gross) electrical generator. [District NSR Rule], [Federally Enforceable Through Title V]
3. Boiler shall be equipped with sand supply/reinjection system including bucket elevator #1 discharging to boiler or sand silo with bin vent filter. [District NSR Rule], [Federally Enforceable Through Title V]
4. Boiler shall be equipped with fluidized bed cleanout vibrating screen, enclosed bucket elevator #2, enclosed magnetic separator and enclosed circulating vibrating screen - with all enclosed equipment vented to boiler fuel inlet chute. [District NSR Rule], [Federally Enforceable Through Title V]
5. Fabric collector shall be equipped with an operational differential pressure indicator. [District NSR Rule], [Federally Enforceable Through Title V]
6. Combustion air supply lines and auxiliary burner natural gas supply line shall be equipped with operational volumetric flow-rate indicators. [District NSR Rule], [Federally Enforceable Through Title V]
7. Selective non-catalytic reduction ammonia injection system shall be equipped with operational ammonia volume flow-rate indicator. [District NSR Rule], [Federally Enforceable Through Title V]
8. Fabric collector exhaust stack shall be equipped with permanent stack sampling provisions (ports, platform, ladder, etc.) consistent with E.P.A. test methods and District Rule 1081 requirements. [District Rule 1081], [Federally Enforceable Through Title V]
9. Fabric collector exhaust stack shall be equipped with recording continuous monitors for opacity, SO<sub>2</sub>, NO<sub>2</sub>, CO, O<sub>2</sub>, and flue gas volume flow-rate per Rule 1081. [District Rules 2201 and 1081], [Federally Enforceable Through Title V]
10. Continuous monitoring systems for opacity, SO<sub>2</sub>, NO<sub>2</sub>, CO, and O<sub>2</sub>, shall meet E.P.A. monitoring performance specifications appearing in 40 CFR 60.13 and 40 CFR Appendix B, Performance Specifications 1. 2. 4. & 4A. [District Rule 4001], [Federally Enforceable Through Title V]
11. Continuous monitoring system for flue gas volume flow-rate shall meet E.P.A. monitoring performance specifications appearing in 40 CFR Part 52 appendix E. [District Rule 4001], [Federally Enforceable Through Title V]
12. This facility shall comply in full with the requirements of Rule 4001 New Source Performance Standards part 60 subpart A. and subpart Db. [District Rule 4001], [Federally Enforceable Through Title V]
13. Only PUC quality natural gas, biomass, sand, limestone, ammonia, air, MgO, MgOH and on-site generated dewatered cooling tower sludge shall be introduced into boiler. [District NSR Rule & Rule 4102], [Federally Enforceable Through Title V]
14. "Biomass" means any organic material not derived from fossil fuels, such as agricultural crop residue, orchard prunings and removal, stone fruit pits, nut shells, cotton gin trash, cotton stalks, vineyard prunings, cull logs, eucalyptus logs, bark, lawn, yard and garden clippings, leaves, silvicultural residue, tree and brush pruning, wood and wood chips, and wood waste. Biomass does not include material containing sewage sludge or industrial, hazardous, radioactive or municipal solid waste. [District NSR Rule & Rule 4102], [Federally Enforceable Through Title V]
15. Wood waste includes clean, chipped wood products, plywood, wood products manufacturing wood materials, construction and demolition wood materials, and wood pallets, crates and boxes. [District NSR Rule & 4102], [Federally Enforceable Through Title V]
16. Contamination of the biomass fuel, as delivered to the boiler, shall not exceed 0.04% by weight plastics or 0.62% by weight total of the following materials: metals, plastics, paper, painted wood, particle board, wood treated with preservatives, and non-wood roofing materials (except asbestos). [District Rule 4102], [Federally Enforceable Through Title V]
17. Biomass fuel sulfur content shall not exceed 0.90% by weight on a dry basis. [District NSR Rule], [Federally Enforceable Through Title V]

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18. Biomass fuel nitrogen content shall not exceed 2.50% by weight on a dry basis. [District NSR Rule], [Federally Enforceable Through Title V]
19. Natural gas used as fuel shall not exceed 5,691,429 std. cu. ft. per day. [District NSR Rule], [Federally Enforceable Through Title V]
20. No more than 1,800 lb/day of MgO shall be added to the fluidized bed combustor. [District NSR Rule], [Federally Enforceable Through Title V]
21. Removal of ash from ash hoppers by manual means shall only be conducted during breakdown conditions or when boiler is not operating, and there shall be no visible emissions for a period or periods aggregating more than three (3) minutes in any one (1) hour which is as dark or darker than ringelmann 1 or 20 % opacity. [District Rules 4101 & 4102], [Federally Enforceable Through Title V]
22. Limestone and/or onsite generated cooling tower sludge, shall be injected into boiler at a rate in pounds per ton of biomass fuel introduced into boiler which results in compliance with the SOx emission limitations. [District NSR Rule], [Federally Enforceable Through Title V]
23. Ammonia shall be injected into boiler at a rate, in pounds per ton of biomass fuel introduced into boiler, which results in compliance with the NOx emission limitation. [District NSR Rule], [Federally Enforceable Through Title V]
24. Ammonia injection shall be accomplished in the temperature range of 1600 to 1900 deg. F. [District NSR Rule], [Federally Enforceable Through Title V]
25. Ammonia injection rate shall be controlled to prevent the emission of free ammonia in excess of 20 ppmv or such level as required to prevent detectable odors or a maximum concentration of 50 ppmv at ground level. [District NSR Rule & 4102], [Federally Enforceable Through Title V]
26. NOx and PM10 emission data shall be obtained and provided, as required by NSPS 40CFR60.48b "Emissions monitoring for particulate and nitrogen oxides." CEM data shall be provided as required by 60.48b(f). [District Rule 4001], [Federally Enforceable Through Title V]
27. Particulate matter (PM10) emissions, except for periods of startup and shutdown as defined in this permit, shall not exceed 0.010 gr/dscf @ 12% CO2 (of filterable particulate) and 17.74 lb/hr (including condensable particulate). [District NSR Rule], [Federally Enforceable Through Title V]
28. Sulfur compound emissions, except for periods of startup and shutdown as defined in this permit, shall not exceed 23 ppmvd @ 3% O2 and 15.66 lb/hr (as SO2). [District NSR Rule], [Federally Enforceable Through Title V]
29. Oxides of Nitrogen emissions (as NO2), except for periods of startup and shutdown as defined in this permit, shall not exceed 0.10 lb/MMBtu and 40.00 lb/hr. [District NSR Rule], [Federally Enforceable Through Title V]
30. Volatile Organic Compound (VOC) emissions, except for periods of startup and shutdown as defined in this permit, shall not exceed 0.02 lb/MMBTU and 8.0 lb/hr. [District NSR Rule], [Federally Enforceable Through Title V]
31. Carbon Monoxide (CO) emissions, except for periods of startup and shutdown as defined in this permit, shall not exceed 181 ppmvd @ 3% O2 and 56.00 lb/hr. [District NSR Rule], [Federally Enforceable Through Title V]
32. Boiler emission rates shall not exceed any of the following: PM10: 425.8 lb/day, SOx (as SO2): 375.8 lb/day, NOx (as NO2): 960.0 lb/day, VOC: 192.0 lb/day or CO (except during days of refractory cure): 1344.0 lb/day. [District NSR Rule], [Federally Enforceable Through Title V]
33. On days of refractory cure, CO emissions shall not exceed 7,680 lb/day and heat input to boiler shall not exceed 3,909.4 MMBtu/day. Compliance with CO emission limit on each refractory cure day shall be demonstrated by records of fuel use, fuel heat content, and resulting maximum daily heat rate. [District NSR Rule], [Federally Enforceable Through Title V]
34. This boiler shall not be operated under refractory cure conditions for more than 6 days per year. Refractory cure shall not be performed on more than one unit (Boiler #1, S-75-6 or Boiler #2, S-75-11) at any time. [District NSR Rule], [Federally Enforceable Through Title V]
35. Permittee shall notify the District in writing of the start date and end date of operating under refractory cure and alternate CO emission limit condition. [District NSR Rule], [Federally Enforceable Through Title V]
36. Excess emissions for PM10 shall be defined as any three hour period during which the average emissions of PM10, as measured by the continuous monitoring system or by a performance test, exceeds an emission limit. [District NSR Rule], [Federally Enforceable Through Title V]
37. Excess emissions for NOx, SOx and CO for the continuous monitoring system shall be defined as any 24 hour period during which the average emissions of NOx, SOx or CO exceed any emission limit. [District NSR Rule], [Federally Enforceable Through Title V]
38. Excess emissions for NOx, SOx and CO for a performance test shall be defined as any three hour period during which the average emissions of NOx, SOx or CO exceed an emission limit. [District NSR Rule], [Federally Enforceable Through Title V]
39. "Startup" is the period of time during which the boiler is heated to operating temperature at steady state load from a lower temperature, not to exceed 36 hours. This does not include utility curtailment load ramping between 75 and 100%. [District NSR Rule], [Federally Enforceable Through Title V]
40. If curing of the refractory is required after furnace repair or modification, startup time may be extended to no longer than 60 hours. [District NSR Rule], [Federally Enforceable Through Title V]



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41. "Shutdown" is the period of time during which the boiler is allowed to cool from its operating temperature at steady state load to a lower temperature, not to exceed 8 hours. This does not include utility curtailment load ramping between 100 & 75%. [District NSR Rule], [Federally Enforceable Through Title V]
42. "Steady state" load is defined as the operational conditions that generate electrical power at + or - one (1) Megawatt from the target load established and documented by control room log book. [District Rule 2201], [Federally Enforceable Through Title V]
43. Annual audits of continuous monitors shall be conducted by independent laboratory in accordance with E.P.A. guidelines, shall be witnessed by District and results shall be submitted to District within 60 days of such audit pursuant to Rule 1080. [District Rule 1080], [Federally Enforceable Through Title V]
44. Compliance with biomass fuel contamination limits shall be demonstrated by sorting a District approved 25 ton representative sample of biomass fuel in the reclaim pile upon District request. [District Rule 4102], [Federally Enforceable Through Title V]
45. Data collected during sorting of 25 ton sample of biomass fuel shall be in pounds of material per ton of biomass, by category as identified in fuel contamination limit condition, and official test results and field data shall be submitted within 30 days after collection. [District Rule 4102], [Federally Enforceable Through Title V]
46. Compliance with PM<sub>10</sub>, SO<sub>x</sub>, NO<sub>x</sub> and CO emission sampling limits (except CO during designated refractory cure days) shall be demonstrated by District-witnessed sample collection by independent testing laboratory annually 60 days prior to August 31st permit anniversary date, or within 60 days of startup if the unit did not operate between July 3 and August 1. [District Rule 1081], [Federally Enforceable Through Title V]
47. Compliance with NO<sub>x</sub> and CO emission sampling limits shall be demonstrated by District-witnessed sample collection by independent testing laboratory within 60 days of startup of this Authority to Construct. [District NSR Rule], [Federally Enforceable Through Title V]
48. Source testing for the following parameters shall be conducted using the stated test methods: NO<sub>x</sub> - EPA Method 7 or ARB Method 100, CO - EPA Method 10 or ARB Method 100, CO<sub>2</sub> - EPA Method 3 or ARB Method 100, O<sub>2</sub> - EPA Method 3 or ARB Method 100, SO<sub>2</sub> - EPA Method 6 or ARB Method 100, PM<sub>10</sub> - EPA Methods 201A & 202, Stack Gas Flow Rate - EPA Method 2, Moisture Content - EPA Method 4, Ammonia - BAAQMD ST1B, & Fuel Heating Value - ASTM Method D2015-85 or E711. [District NSR Rule], [Federally Enforceable Through Title V]
49. Official test results and field data from compliance testing shall be submitted within 60 days after collection. [District Rule 1081], [Federally Enforceable Through Title V]
50. Permittee shall annually offset actual emissions (along with secondary emissions approved in original approval) the following pollutant emission rates in pounds per year: PM<sub>10</sub>, 219,037; SO<sub>2</sub>, 143,883 (PM impact only); NO<sub>x</sub> 283,527; VOC 54,750; CO, 614,186 through the elimination of sufficient annual tonnage of agricultural waste diverted from open burning. [District NSR Rule], [Federally Enforceable Through Title V]
51. Permittee shall project and use the proper mix of fuels to ensure that actual emissions from boiler S-75-6 are offset with creditable biomass on a quarterly basis. [District NSR Rule], [Federally Enforceable Through Title V]
52. Open-burning emission factors used to determine the quantity of offsets available from the diversion of biomass from open-burning are listed in the attachment "Open Burn Emission Factors" (District policy SSP-2005). [District NSR Rule], [Federally Enforceable Through Title V]
53. If quarterly actual emissions from boiler S-75-11 are greater than zero, the emission reduction credit from creditable biomass fuel shall be calculated using the following formula:  $P_q = x * [\sum_{j=1}^n (B_j) * (EF_j) * (HBF_j) * (QDF_{jq})]$  where:  $P_q$  = Pollutant offset credit in lb/qtr = sum of emissions (by pollutant) from ag waste credit < 15 miles + emissions > 15 miles from facility.  $q$  = calendar quarter,  $x = 0.5$  for biomass originating > 15 miles and 0.833 for < 15 miles.  $j$  = each creditable biomass type.  $B$  = tons of biomass type ( $j$ ) used per quarter.  $EF$  = emission factor for particular biomass (from SSP-2005).  $HBF_j$  = fraction of biomass type ( $j$ ) that has been demonstrated to have historically open field burned (for orchard prunings  $HBF=0.96$ , for other biomass a District approved HBF factor must be used).  $QDF_{jq}$  = Quarterly distribution factor - fraction of burning of biomass ( $j$ ) which occurs in calendar quarter ( $q$ ). For orchard prunings  $QDF = Q1: 0.251, Q2: 0.275, Q3: 0.149, Q4: 0.325$ . [District NSR Rule], [Federally Enforceable Through Title V]
54. Permittee shall maintain accurate records of continuous emissions monitoring (CEM) results, dates of occurrences and duration of start-up, shutdown, malfunction, performance testing, evaluations, calibrations, checks, adjustments and maintenance, and daily records of natural gas fuel usage. Records required by this permit shall be retained on site for a period of at least five years and shall be made readily available for District inspection upon request. [District Rules 1080 & NSR Rule], [Federally Enforceable Through Title V]
55. Daily records for each load of creditable biomass received shall be maintained which include the geographic origin (for applicability of distance offset ratio), date, weigh ticket number, supplier name, fuel type, tons received, the offset ratio for the load of biomass, and the amount of offset credit (in pounds of NO<sub>x</sub>) attributable to each load of biomass. Records shall include certifications that any creditable biomass for which offset credit is claimed has historically been open burned in the San Joaquin Valley air basin. [District NSR Rule], [Federally Enforceable Through Title V]
56. Permittee shall demonstrate compliance with the emission offset requirements by submitting to the District a quarterly report accounting for the tonnage of agricultural waste eliminated from open field burning and used as plant fuel. [District NSR Rule], [Federally Enforceable Through Title V]

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57. Quarterly report of agricultural waste eliminated from open field burning used as fuel at facility shall document creditable ag waste fuel receipt quantities, if fuel originates > 15 miles from facility, offset credit ratios, emission factors used, and summary of the resultant emissions offsets provided using "the procedure", and shall be submitted to the District within 30 days of the end of the quarter. [District NSR Rule], [Federally Enforceable Through Title V]
58. Quarterly report, of agricultural waste eliminated from open field burning used for the purpose of providing required offsets, shall document historical biomass fraction (HBF) and quarterly distribution factor (QDF) for each biomass fuel used to calculate credit. For orchard prunings HBF = 0.96 and QDF = as stated in this permit. [District NSR Rule], [Federally Enforceable Through Title V]
59. This ATC for a NOx BACT re-determination is predicated on the argument that relaxing the NOx BACT limit will eliminate optically dense visible emissions. Should optically dense visible emissions continue or recur, this BACT re-determination shall be nullified and the NOx BACT emission limit shall revert to 0.08 lb/MM Btu. [District NSR Rule], [Federally Enforceable Through Title V]
60. Visible emissions shall be inspected quarterly during operation. If visible emissions are observed, corrective action shall be taken to eliminate visible emissions. If visible emissions cannot be corrected within 24 hours, a visible emissions test using EPA Method 9 shall be conducted. [District Rule 2520, 9.3.2], [Federally Enforceable Through Title V]
61. Dust collector system shall be thoroughly inspected annually for any evidence of particulate matter leaks and shall be repaired as needed. [District Rule 2520, 9.3.2], [Federally Enforceable Through Title V]
62. Dust collector filters shall be thoroughly inspected at least annually when the unit is not in operation for tears, scuffs, abrasions, holes, or any evidence of particulate matter leaks and shall be replaced as needed. [District Rule 2520, 9.3.2], [Federally Enforceable Through Title V]
63. Records of dust collector maintenance, inspections, and repair shall be maintained. The records shall include identification of the equipment, date of inspection, corrective action taken, and identification of the individual performing the inspection. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
64. FACILITIES OPERATION: All equipment, facilities, and systems shall at all times be maintained in good working order and be operated as efficiently as possible so as to minimize air pollutant emissions. [PSD ATC SJ 90-01], [Federally Enforceable Through Title V]
65. MALFUNCTION: The Director of the Air and Toxics Division shall be notified by telephone within 48 hours following any failure of air pollution control equipment, process equipment, or of a process to operate in a normal manner which results in an increase in emissions above any allowable emissions limit. In addition, the Director of the Air and Toxics Division shall be notified in writing within fifteen (15) days of any such failure. This notification shall include a description of the malfunctioning equipment or abnormal operation, the date of the initial failure, the period of time over which emissions were increased due to the failure, the cause of the failure, the estimated resultant emissions in excess of those allowed, and the methods utilized to restore normal operations. Compliance with this malfunction notification provision shall not excuse or otherwise constitute a defense to any violations of the permit or of any law or regulations which such malfunction may cause. [PSD ATC SJ 90-01], [Federally Enforceable Through Title V]
66. RIGHT TO ENTRY: The Regional Administrator, the head of the State Air Pollution Control Agency, the head of the responsible local air pollution control agency, and/or their authorized representatives, upon the presentation of credentials, shall be permitted: A) to enter upon the premises where the source is located or in which any records are required to be kept under the terms and conditions of this permit; B) at reasonable times to have access to and copy any records required to be kept under the terms and conditions of this permit; C) to inspect any equipment, operation, or method required in this permit; D) to sample emissions from the source. [PSD ATC SJ 90-01], [Federally Enforceable Through Title V]
67. TRANSFER OF OWNERSHIP: In the event of any changes in control or ownership, this permit shall be binding on all subsequent owners and operators. The applicant shall notify the succeeding owner and operator of the existence of this permit and its conditions by letter, a copy of which shall be forwarded to the Regional Administrator and the State and local Air Pollution Control Agency. [PSD ATC SJ 90-01], [Federally Enforceable Through Title V]
68. SEVERABILITY: The provisions of this permit are severable, and, if any provisions of this permit is held invalid, the remainder of this permit shall not be affected thereby. [PSD ATC SJ 90-01], [Federally Enforceable Through Title V]
69. OTHER APPLICABLE REGULATIONS: The owner and operator shall operate the stationary source in compliance with all other applicable provisions of 40 CFR Parts 52, 60 and 61 and all other applicable federal, state and local air quality regulations. [PSD ATC SJ 90-01], [Federally Enforceable Through Title V]
70. AIR POLLUTION CONTROL EQUIPMENT: Limestone shall be injected directly into the combustion chambers of the boiler as required to attain the emission limit for SO<sub>2</sub>. Based on previous operating experience, DECI shall, to the best of its ability, anticipate periods when a high sulfur biomass fuel and/or inherently low calcium bearing biomass fuel is utilized such that the addition of limestone is required to attain the emission limits. A SNCR system utilizing ammonia injection shall be incorporated within the boilers. Ammonia shall be injected continuously during all periods of operation at a rate which results in compliance with the NOx emission limits. It is ultimately, DECI's burden to maintain SO<sub>2</sub> and NOx emissions below the limits given in this permit during all periods of operations independent of biomass fuel type and fuel availability. Biomass fuel type, availability, and/or composition can not be utilized as a rationale for excess emissions. [PSD ATC SJ 90-01], [Federally Enforceable Through Title V]

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71. PERFORMANCE TESTS: At times as specified by EPA, DECI shall conduct performance tests for SO<sub>2</sub>, NO<sub>x</sub>, CO, and PM<sub>10</sub> and furnish the Kern County Air Pollution Control District and EPA a written report of the results of such tests. The tests for SO<sub>2</sub>, NO<sub>x</sub>, CO, and PM<sub>10</sub> shall be conducted on an annual basis and at the maximum operating capacity of the facility being tested. Upon written request (Attn: A-3-3) from DECI, EPA may approve the conducting of performance tests at a lower specified production rate. Also, upon written request from DECI, EPA may approve the deletion of a specific annual test for the combustion unit. [PSD ATC SJ 90-01], [Federally Enforceable Through Title V]
72. PERFORMANCE TEST METHODS: Performance tests for the emissions of SO<sub>2</sub>, NO<sub>x</sub>, CO, and PM<sub>10</sub> shall be conducted and the results reported in accordance with the test methods set forth in 40 CFR 60, Part 60.8 and Appendix A and 40 CFR Part 51 Appendix M. The following test methods shall be used: a) Performance tests for the emission of SO<sub>2</sub> shall be conducted using EPA Methods 1-4, and b) Performance tests for the emissions of NO<sub>x</sub> shall be conducted using EPA Methods 1-4, and c) Performance tests for the emissions of PM<sub>10</sub> shall be conducted using EPA Method 201(a), and d) Performance tests for the emissions of CO shall be conducted using EPA Methods 1-4 and 10. [PSD ATC SJ 90-01], [Federally Enforceable Through Title V]
73. PERFORMANCE TEST NOTICE: EPA (Attn: A-3-3) shall be notified in writing at least 30 days prior to such tests to allow time for the development of an approvable performance test plan and to arrange for an observer to be present at the test. Such prior approval will minimize the possibility of EPA rejection of test results for procedural deficiencies. In lieu of the above mentioned test methods, equivalent methods may be used with prior written approval from EPA. [PSD ATC SJ 90-01], [Federally Enforceable Through Title V]
74. PERFORMANCE TEST ACCOMMODATIONS: For performance test purposes, sampling ports, platforms, and access shall be provided by DECI on the combustion exhaust system in accordance with 40 CFR 60.8(e). [PSD ATC SJ 90-01], [Federally Enforceable Through Title V]
75. SO<sub>2</sub> EMISSION LIMIT: Boiler shall not discharge or cause the discharge into the atmosphere SO<sub>2</sub> in excess of the more stringent of 10.4 lb/hr or 18.8 ppmvd @ 3% O<sub>2</sub> (3-hour rolling average) or 249.6 lb/day from the stack venting the boiler. [PSD ATC SJ 90-01], [Federally Enforceable Through Title V]
76. NO<sub>x</sub> EMISSION LIMIT: Boiler shall not discharge or cause the discharge into the atmosphere NO<sub>x</sub> (asNO<sub>2</sub>) in excess of the more stringent of 25.2 lb/hr or 63 ppmvd @ 3% O<sub>2</sub> (24-hour rolling average) or 604.8 lb/day from the stack venting the boiler. [PSD ATC SJ 90-01], [Federally Enforceable Through Title V]
77. PM<sub>10</sub> EMISSION LIMIT: Boiler shall not discharge or cause the discharge into the atmosphere filterable PM<sub>10</sub> in excess of the more stringent of 7.0 lb/hr or 0.01 gr/dscf @ 12% CO<sub>2</sub> (3-hour rolling average) or 169 lb/day from the stack venting the boiler. [PSD ATC SJ 90-01], [Federally Enforceable Through Title V]
78. CO EMISSION LIMIT: Boiler shall not discharge or cause the discharge into the atmosphere CO in excess of the more stringent of 44.1 lb/hr or 183 ppmvd @ 3% O<sub>2</sub> (3-hour rolling average) or 1058.4 lb/day from the stack venting the boiler. [PSD ATC SJ 90-01], [Federally Enforceable Through Title V]
79. OPACITY: Boiler shall not discharge or cause the discharge into the atmosphere any gases with an opacity in excess of 20% except for aggregate periods of less than 3 minutes in any one hour period from each of the stacks venting each of the fluidized bed combustion units. [PSD ATC SJ 90-01], [Federally Enforceable Through Title V]
80. BOILER HEAT INPUT: DECI shall continuously record the steam output and the steam temperature and pressure from the boiler; also, DECI shall determine the boiler efficiency annually. The heat input, as determined from the boiler efficiency and steam production rate, shall not exceed 315 MMBtu/hr. [PSD ATC SJ 90-01], [Federally Enforceable Through Title V]
81. OFFSET RESTRICTION: If the emission limit for any of the above pollutants (SO<sub>2</sub>, NO<sub>x</sub>, PM<sub>10</sub>, and CO) is revised, the difference between the pollutant emission limit set forth above and the lower pollutant emission limit shall not be allowed as an emission offset for future construction or modification. [PSD ATC SJ 90-01], [Federally Enforceable Through Title V]
82. CONTINUOUS MONITORING: DECI shall maintain and operate a continuous monitoring system to measure stack gas NO<sub>x</sub>, CO, SO<sub>x</sub>, O<sub>2</sub> and Opacity in the stack venting the fluidized bed boiler. The system shall meet EPA monitoring performance specification (40 CFR 60.13 and 40 CFR 60, Appendix B, Performance Specifications 1,2,3,and 4). [PSD ATC SJ 90-01], [Federally Enforceable Through Title V]
83. CONTINUOUS MONITORING: DECI shall maintain and operate a continuous monitoring system to measure stack gas volumetric flow rates in the stack venting the fluidized bed boiler. The system shall meet EPA monitoring performance specification (40 CFR Part 60, Appendix B, Performance Specification 6). [PSD ATC SJ 90-01], [Federally Enforceable Through Title V]
84. CONTINUOUS MONITORING REPORT: DECI shall submit a written report of all excess emissions to EPA (Attn: A-3-3) for every calendar quarter. The report shall include the following: a) The magnitude of excess emissions computed in accordance with 40 CFR 60.13(h), any conversion factor(s) used, and the date and time of commencement and completion of each time period of excess emissions. b) Specific identification of each period of excess emissions that occurs during start-ups, shutdowns, and malfunctions of any of the boilers. The nature and cause of any malfunction (if known) and the corrective action take or preventative measures adopted shall also be reported. c) The date and time identifying each period during which the continuous monitoring system was inoperative except for zero and span checks and the nature of the system repairs or adjustments. d) When no excess emissions have occurred or the continuous monitoring system has not been inoperative, repaired, or adjusted, such information shall be stated in the report. [PSD ATC SJ 90-01], [Federally Enforceable Through Title V]

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85. CONTINUOUS MONITORING: Excess emissions shall be defined as any three-hour period during which the average emissions of PM<sub>10</sub>, SO<sub>2</sub>, and/or CO, as measured by the continuous monitoring system or by a performance test, exceeds the maximum emission limits. [PSD ATC SJ 90-01], [Federally Enforceable Through Title V]
86. CONTINUOUS MONITORING: Excess emissions shall be defined as any 24-hour period during which the average emissions of NO<sub>x</sub>, as measured by the continuous monitoring system or by a performance test, exceeds the NO<sub>x</sub> maximum emission limit. [PSD ATC SJ 90-01], [Federally Enforceable Through Title V]
87. CONTINUOUS MONITORING: Excess emissions shall be defined as any three-minute period during which the average opacity as measured by the continuous monitoring system exceed the maximum emission limit. [PSD ATC SJ 90-01], [Federally Enforceable Through Title V]
88. CONTINUOUS MONITORING: Excess emissions indicated by the CEM system shall be considered violations of the applicable emission limits for the purposes of this permit except for SO<sub>2</sub> and CO 3-hour emission limits and the opacity minute limit during normal startup or shutdown: (1) Startup shall be considered that period of time during which the boiler is heated to operating temperature at steady state load from a lower temperature, not to exceed 36 hours. This does not include utility curtailment load ramping between 75 and 100%. If curing of the refractory is required after furnace repair or modification, startup time may be extended to no longer than 60 hours. (2) Shutdown shall be considered that period of time during which the boiler is allowed to cool from its operating temperature at steady state load to a lower temperature, not to exceed 8 hours. This does not include utility curtailment load ramping between 100 and 75%. (3) Daily emission limits apply at all times except during refractory cure. [PSD ATC SJ 90-01], [Federally Enforceable Through Title V]
89. CONTINUOUS MONITORING: DECI shall maintain a file of all measurements, including continuous monitoring system, monitoring device, and performance testing measurements; all continuous monitoring system performance evaluations; all continuous monitoring system or monitoring device calibration checks; adjustments and maintenance performed on these systems or devices; and all other information required by 40 CFR 60 recorded in a permanent form suitable for inspection. [PSD ATC SJ 90-01], [Federally Enforceable Through Title V]
90. FUEL USE: Only PUC quality natural gas, biomass, sand, limestone, ammonia, air and onsite generated, dewatered cooling tower sludge shall be fired in boiler. [PSD ATC SJ 90-01], [Federally Enforceable Through Title V]
91. FUEL USE: Biomass fuel sulfur shall not exceed 0.90% dry weight and biomass fuel nitrogen shall not exceed 2.5% dry weight. [PSD ATC SJ 90-01], [Federally Enforceable Through Title V]
92. FUEL USE: Biomass means any organic material not derived from fossil fuels, such as agricultural crop residue, orchard prunings and removals, stone fruit pits, nut shells, cotton gin trash, cotton stalks, vineyard prunings, cull logs, eucalyptus logs, bark, lawn yard and garden clippings, leaves, silvicultural residue, tree and brush pruning, wood and wood chips and wood waste, including clean, chipped wood products, plywood, particle board, fiberboard and wood products manufacturing wastes, wood based construction demolition materials, pallets, crates and boxes. Biomass shall not include material containing sewage sludge, industrial waste, hazardous waste or municipal solid waste. [PSD ATC SJ 90-01], [Federally Enforceable Through Title V]
93. FUEL USE: Additional biomass fuels may be administratively appended to this list upon a written request by the permittee to add an unlisted fuel, and provided the permittee can demonstrate that emissions of affected pollutants will not increase and that the boiler is designed to accommodate such fuel without physical or operational modifications. [PSD ATC SJ 90-01], [Federally Enforceable Through Title V]
94. FUEL USE: Biomass shall not include material containing sewage sludge, industrial waste, hazardous waste or municipal waste. In addition, contamination of the biomass fuel shall not exceed 0.04% by weight plastics and 0.62% by weight of metals, plastics, paper, painted wood, preservative treated wood and nonwood roofing materials (except asbestos). [PSD ATC SJ 90-01], [Federally Enforceable Through Title V]
95. FUEL USE: The permittee shall continuously record the steam output from the boiler and shall annually determine boiler efficiency from the results of boiler efficiency tests. From these parameters the heat input to the boiler (on a 365 day rolling average) shall be determined and recorded. The heat input as determined from the boiler efficiency and steam production rate shall not exceed 315 MMBtu/hr. [PSD ATC SJ 90-01], [Federally Enforceable Through Title V]
96. FUEL USE: The boiler shall not consume more than 142,857.1 scf/hr of natural gas with a higher heating value of 1,050 Btu/scf through the inbed and overbed burners. [PSD ATC SJ 90-01], [Federally Enforceable Through Title V]
97. FUEL USE: The boiler shall not consume more than 14,285.7 scf/hr of natural gas with a higher heating value (HHV) of 1,050 Btu/scf through the startup burner. [PSD ATC SJ 90-01], [Federally Enforceable Through Title V]
98. FUEL USE: The startup burner shall only be used for startup purposes. [PSD ATC SJ 90-01], [Federally Enforceable Through Title V]
99. FUEL USE: The total heat input into the boiler shall not exceed 315 MMBtu/hr (HHV) when firing with both biomass and natural gas. [PSD ATC SJ 90-01], [Federally Enforceable Through Title V]
100. NEW SOURCE PERFORMANCE STANDARDS: The boiler shall meet all applicable requirements of 40 CFR 60 Subparts A and Db. [PSD ATC SJ 90-01], [Federally Enforceable Through Title V]
101. AGENCY NOTIFICATIONS: All correspondence as required by this Operating Permit shall be forwarded to the following addresses: 1) Director, Air and Toxics Division (Attn: A-3-3), EPA Region 9, 75 Hawthorne St, San Francisco, CA 94105; 2) Chief, Stationary Source Division, California Air Resources Board, PO Box 2815, Sacramento, CA 95812; 3) Assistant Air Pollution Control Officer, SJVUAPCD, 2700 "M" Street, Suite 275, Bakersfield, CA 93301. [PSD ATC SJ 90-01], [Federally Enforceable Through Title V]

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102. The owner/operator shall maintain an operating log that includes the type and quantity of fuel used and the hhv of each fuel as determined by District Rule 4352, section 6.4 (as amended 10/19/95), or as certified by a third party fuel supplier. [District Rule 4352], [Federally Enforceable Through Title V]
103. Particulate Matter emissions shall not exceed 10.0 lb/hr. [District Rule 4301], [Federally Enforceable Through Title V]

**Initial TV Permit**

**San Joaquin Valley**  
**Air Pollution Control District**

**PERMIT UNIT:** S-75-7-3

**EXPIRATION DATE:** 08/31/2007

**EQUIPMENT DESCRIPTION:**

44,883 GALLON ASH STORAGE SILO WITH UNLOADING SPOUT, BOTH SERVED BY BIN VENT FILTER WITH 95 SQ.FT FILTER AREA AND 1/2 HP MOTOR - SILO RECEIVING MATERIAL FROM PHASE I AND PHASE II ASH HANDLING CONVEYOR

## **PERMIT UNIT REQUIREMENTS**

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1. Phase I ash handling system shall include three boiler ash conveyors, eight baghouse rotary feeders, two baghouse conveyors, one main ash conveyor and one silo conveyor. [District NSR Rule], [Federally Enforceable Through Title V]
2. Phase II ash handling system shall include one boiler ash conveyors, six baghouse rotary feeders, two baghouse conveyors, one main ash conveyor and one silo conveyor. [District NSR Rule], [Federally Enforceable Through Title V]
3. Silo shall include vibrating bin, rotary feeder, bin vent filter and paddle type ash conditioner. [District NSR Rule], [Federally Enforceable Through Title V]
4. Ash shall not be removed from any ash hopper, conveying system or ash silo by manual means during normal operation. [District NSR Rule], [Federally Enforceable Through Title V]
5. Material collected by bin vent filter shall fall by gravity into storage silo. [District NSR Rule], [Federally Enforceable Through Title V]
6. Operation shall include telescoping ash unloading spout and 5 hp dust withdrawal fan discharging collected particulate back into ash silo served by bin vent. [District NSR Rule], [Federally Enforceable Through Title V]
7. Only material which has been mixed with sufficient water to prevent visible emissions, of 5% opacity or greater, shall be unloaded from ash silo unloading conditioner. [District NSR Rule], [Federally Enforceable Through Title V]
8. There shall be no visible emissions of 5% opacity or greater from silo bin vent filter exhaust stack. [District NSR Rule], [Federally Enforceable Through Title V]
9. Only covered truck shall be loaded with ash silo contents. [District NSR Rule], [Federally Enforceable Through Title V]
10. Storage silo shall vent only through bin vent filter. [District NSR Rule], [Federally Enforceable Through Title V]
11. Bin vent filter shall have a maximum air to cloth ratio of 5 ft./min, and minimum filter area of 95 sq. ft. [District NSR Rule], [Federally Enforceable Through Title V]
12. Bin vent filter shall be equipped with adjustable, automatic reverse pulse jet cleaning mechanism. [District NSR Rule], [Federally Enforceable Through Title V]
13. Bin vent filter shall be equipped with operational differential pressure indicator. [District NSR Rule], [Federally Enforceable Through Title V]
14. Bin vent filter exhaust stack shall be equipped with adequate stack sampling provisions (ports, platform, ladder, etc.) consistent with EPA test methods. [District Rule 1081], [Federally Enforceable Through Title V]
15. Ash silo unloading conditioning unit shall be dust tight. [District NSR Rule], [Federally Enforceable Through Title V]
16. Records of amounts of ash loaded into disposal trucks shall be maintained and made readily available for District inspection upon request. [District NSR Rule], [Federally Enforceable Through Title V]
17. The maximum emission rate of volatile organic compounds shall not exceed 0.02 lbm/day. [District NSR Rule], [Federally Enforceable Through Title V]
18. Particulate matter emissions shall not exceed 0.010 grains/dscf in concentration. [District NSR Rule], [Federally Enforceable Through Title V]
19. Visible emissions shall be inspected quarterly during operation. If visible emissions are observed, corrective action shall be taken to eliminate visible emissions. If visible emissions cannot be corrected within 24 hours, a visible emissions test using EPA Method 9 shall be conducted. [District Rule 2520, 9.3.2], [Federally Enforceable Through Title V]
20. Dust collector system shall be thoroughly inspected annually for any evidence of particulate matter leaks and shall be repaired as needed. [District Rule 2520, 9.3.2], [Federally Enforceable Through Title V]

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21. Dust collector filters shall be thoroughly inspected at least annually when the unit is not in operation for tears, scuffs, abrasions, holes, or any evidence of particulate matter leaks and shall be replaced as needed. [District Rule 2520, 9.3.2], [Federally Enforceable Through Title V]
22. Records of dust collector maintenance, inspections, and repair shall be maintained. The records shall include identification of the equipment, date of inspection, corrective action taken, and identification of the individual performing the inspection. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
23. Particulate matter emissions shall not exceed the hourly rate as calculated in District Rule 4202 using the equation  $E = 3.59 \times P^{0.62}$ ; P is less than or equal to 30 tons per hour, or  $E = 17.37 \times P^{0.16}$ ; P is greater than 30 tons per hour. [District Rule 4202], [Federally Enforceable Through Title V]

**Initial TV Permit**

**San Joaquin Valley**  
**Air Pollution Control District**

**PERMIT UNIT:** S-75-9-4

**EXPIRATION DATE:** 08/31/2007

**EQUIPMENT DESCRIPTION:**

HP FUEL RECEIVING, SCREENING & CONVEYING OPERATION INCLUDING 60 TON CAPACITY TRUCK TIPPER PLATFORM, FUEL RECEIVING HOPPER W/INCLINED DRAG CONVEYOR & SPIKE ROLLER, AND 100 TON/HR FUEL RECEIVING CONVEYOR #11 W/BELT SCALE

## **PERMIT UNIT REQUIREMENTS**

1. Truck tipper platform, fuel receiving hopper, and fuel receiving conveyor shall vent only to fabric collector #5. [District NSR Rule], [Federally Enforceable Through Title V]
2. Fuel receiving operation shall include belt type magnetic separator #3. [District NSR Rule], [Federally Enforceable Through Title V]
3. Fuel receiving operation shall be equipped with ventilation system and fabric collector #5 with a minimum filter area of 4,875 sq. ft., maximum air-to-cloth ratio of 8:1, 100 hp exhaust fan, 5.0 hp reverse air blower, air lock, air header, and screw conveyor. [District NSR Rule], [Federally Enforceable Through Title V]
4. Fuel receiving operation shall be equipped with disk type scalping screen and two position pneumatically operated diverter gate #5. [District NSR Rule], [Federally Enforceable Through Title V]
5. Fuel receiving operation shall be equipped with swing hammer type hog with metal trap. [District NSR Rule], [Federally Enforceable Through Title V]
6. Fuel receiving operation shall be equipped with 50 ton/hr capacity disk screen overs conveyor #12, 100 ton/hr capacity screen/hog discharge conveyor #13, and 135 ton/hr capacity fuel transfer conveyor #14. [District NSR Rule], [Federally Enforceable Through Title V]
7. Fuel receiving operation shall be equipped with ventilation systems and fabric collector #6 with a minimum filter area of 2,505 sq. ft., maximum air-to-cloth ratio of 8:1, 60 hp exhaust fan, 3.0 hp reverse air blower, air lock, air header, and screw conveyor. [District NSR Rule], [Federally Enforceable Through Title V]
8. Fabric collector #6 shall serve disk type scalping screen, diverter gate #5, swing hammer type hog, disk screen overs conveyor #12, screen/hog discharge conveyor #13, and fuel transfer conveyor #14. [District NSR Rule], [Federally Enforceable Through Title V]
9. Fuel receiving operation shall be equipped with two position pneumatically operated diverter gates number 6 and number 7. [District NSR Rule], [Federally Enforceable Through Title V]
10. Fuel receiving operation shall be equipped with 135 ton/hr capacity fixed stacker feed conveyor #17. [District NSR Rule], [Federally Enforceable Through Title V]
11. Fuel receiving operation fixed stacker shall be equipped with telescoping spout with dust pick-up shroud and water spray ring. [District NSR Rule], [Federally Enforceable Through Title V]
12. Fuel receiving operation shall be equipped with 170 ton/hr capacity radial stacker feed conveyor #15. [District NSR Rule], [Federally Enforceable Through Title V]
13. Fuel receiving operation shall be equipped with 170 ton/hr capacity radial stacker conveyor #16 shared with permit unit S-75-10. [District NSR Rule], [Federally Enforceable Through Title V]
14. Fuel receiving operation radial stacker shall be equipped with telescoping spout with dust pick-up shroud and water spray ring. [District NSR Rule], [Federally Enforceable Through Title V]
15. Water spray rings on radial and fixed stackers shall be operated whenever material is transferred through stacker. [District NSR Rule], [Federally Enforceable Through Title V]
16. Fuel receiving operation shall be equipped with ventilation system and fabric collector #7 with minimum of 4,466 sq. ft. filter area, maximum air-to-cloth ratio of 8:1, 200 hp exhaust fan, 5.0 hp reverse air blower, air lock, air header, and screw conveyor. [District NSR Rule], [Federally Enforceable Through Title V]
17. Fabric collector #7 shall serve diverter gates #6 and #7, fixed stacker feed conveyor #17, fixed stacker telescoping spout, radial stacker feed conveyor #15, radial stacker conveyor #16, radial stacker telescoping spout, and equipment identified on permit S-75-10. [District NSR Rule], [Federally Enforceable Through Title V]



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18. Truck tipper receiving hopper ventilation pickup points shall prevent particulate matter emissions to atmosphere. [District NSR Rule], [Federally Enforceable Through Title V]
19. Truck tipper receiving hopper ventilation hood and hog ventilation hoods shall provide minimum indraft velocity of 200 ft./min. during entire truck unloading/screening operation. [District NSR Rule], [Federally Enforceable Through Title V]
20. Truck tipper receiving hopper drag chain conveyor transfer point hood shall provide minimum indraft velocity of 150 ft./min. during entire truck unloading/screening operation. [District NSR Rule], [Federally Enforceable Through Title V]
21. Conveyor belt ventilation hood(s) shall provide minimum indraft velocity of 500 cfm/ft. of belt width during entire truck unloading/screening operation. [District NSR Rule], [Federally Enforceable Through Title V]
22. Scalping screen ventilation hood shall be designed to provide minimum indraft velocity of 50 ft./min. during entire truck unloading/screening operation. [District NSR Rule], [Federally Enforceable Through Title V]
23. Each fabric collector shall be equipped with adjustable automatic reverse pulse filter cleaning mechanism and operational differential pressure indicator. [District NSR Rule], [Federally Enforceable Through Title V]
24. Each fabric collector exhaust stack shall be equipped with adequate stack sampling provisions (ports, platform, ladder, etc.) consistent with EPA test methods. [District Rule 1081], [Federally Enforceable Through Title V]
25. Particulate matter collected by fabric collectors shall be stored in closed containers when such material is not actively being returned to the boiler via permitted conveying equipment. [District NSR Rule], [Federally Enforceable Through Title V]
26. Radial stackers telescoping spout discharge height shall be maintained as close as possible to top of storage pile. [District NSR Rule], [Federally Enforceable Through Title V]
27. Each ventilation system duct shall be equipped with capped 3/4 in. pitot port in an accessible location to facilitate duct velocity determination measurement. [District Rule 1081], [Federally Enforceable Through Title V]
28. All ventilation system ducts shall be sized for minimum duct transport velocity of 3,400 ft./min. [District NSR Rule], [Federally Enforceable Through Title V]
29. Deliveries of wood waste fuel shall not exceed 46 truck loads per day without prior District approval. [District NSR Rule], [Federally Enforceable Through Title V]
30. Ventilation system and fabric collector shall operate whenever material is being transferred into or out of receiving hoppers. [District NSR Rule], [Federally Enforceable Through Title V]
31. Wood waste delivery trucks shall remain covered during entire unloading operation. [District NSR Rule], [Federally Enforceable Through Title V]
32. There shall be no visible emissions of 5% opacity or greater from truck tipper or receiving hopper during entire unloading operation. [District NSR Rule], [Federally Enforceable Through Title V]
33. Truck tipper receiving hopper fabric collector #5 shall be operated whenever material is being transferred into and out of hoppers. [District NSR Rule], [Federally Enforceable Through Title V]
34. There shall be no visible emissions of 5% opacity or greater from conveyor transfer points, scalping screen, and hog enclosures, including inlet and outlet openings. [District NSR Rule], [Federally Enforceable Through Title V]
35. Ventilation system and fabric collector #6 shall be operated whenever material is being transferred from fuel receiving operation. [District NSR Rule], [Federally Enforceable Through Title V]
36. Ventilation system and fabric collector #7 shall be operated whenever material is being transferred from fuel receiving operations. [District NSR Rule], [Federally Enforceable Through Title V]
37. Fuel transfer conveyors shall be covered and covers shall be in place whenever conveyors are operating. [District NSR Rule], [Federally Enforceable Through Title V]
38. Any stored fuel which is burning shall be immediately segregated and extinguished. [District NSR Rule], [Federally Enforceable Through Title V]
39. All access roads and roadways associated with truck unloading operations shall be paved and maintained in good condition at all times. [District NSR Rule], [Federally Enforceable Through Title V]
40. Operator shall visually check each truckload for unacceptable fuel before unloading. For non-agricultural fuel (e.g. secondary wood), a representative sample shall be taken from each source each day and stored for one month. [District NSR Rule], [Federally Enforceable Through Title V]
41. Fuel samples shall be made available for District inspection upon request. [District NSR Rule], [Federally Enforceable Through Title V]

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42. Particulate matter (PM-10) emissions from all fabric collectors shall not exceed 0.004 gr/scf. [District NSR Rule], [Federally Enforceable Through Title V]
43. Particulate matter (PM-10) emissions from truck dump area fabric collector #5 shall not exceed 1.18 lbm/hr. [District NSR Rule], [Federally Enforceable Through Title V]
44. Particulate matter (PM-10) emissions from scalping screen/hog area fabric collector #6 shall not exceed 0.67 lbm/hr. [District NSR Rule], [Federally Enforceable Through Title V]
45. Particulate matter (PM-10) emissions from stacker/reclaimer fabric collector #7 shall not exceed 1.25 lbm/hr. [District NSR Rule], [Federally Enforceable Through Title V]
46. Fugitive particulate matter (PM-10) emissions from fuel storage piles shall not exceed 60.81 lbm/day. [District NSR Rule], [Federally Enforceable Through Title V]
47. Particulate matter (PM-10) emissions at fabric collector exhaust stacks shall be determined by District-witnessed sample collection by independent testing firm within 60 days after startup of this equipment. [District Rule 1081], [Federally Enforceable Through Title V]
48. Official test results and field data collected shall be submitted to the District within 60 days after collection. [District Rule 1081], [Federally Enforceable Through Title V]
49. Particulate matter collected by fabric collectors shall be disposed of in a manner preventing entrainment in atmosphere. [District NSR Rule], [Federally Enforceable Through Title V]
50. Visible emissions shall be inspected quarterly during operation. If visible emissions are observed, corrective action shall be taken to eliminate visible emissions. If visible emissions cannot be corrected within 24 hours, a visible emissions test using EPA Method 9 shall be conducted. [District Rule 2520, 9.3.2], [Federally Enforceable Through Title V]
51. Dust collector system shall be thoroughly inspected annually for any evidence of particulate matter leaks and shall be repaired as needed. [District Rule 2520, 9.3.2], [Federally Enforceable Through Title V]
52. Dust collector filters shall be thoroughly inspected at least quarterly when the unit is not in operation for tears, scuffs, abrasions, holes, or any evidence of particulate matter leaks and shall be replaced as needed. [District Rule 2520, 9.3.2], [Federally Enforceable Through Title V]
53. Records of dust collector maintenance, inspections, and repair shall be maintained. The records shall include identification of the equipment, date of inspection, corrective action taken, and identification of the individual performing the inspection. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
54. Operator shall record the daily number of truck deliveries of wood waste fuel. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
55. Particulate matter emissions shall not exceed the hourly rate as calculated in District Rule 4202 using the equation  $E = 3.59 \times P^{0.62}$ ; P is less than or equal to 30 tons per hour, or  $E = 17.37 \times P^{0.16}$ ; P is greater than 30 tons per hour. [District Rule 4202], [Federally Enforceable Through Title V]
56. Particulate matter emissions shall not exceed 0.1 gr/dscf in concentration. [District Rule 4201 & Kern County Rule 404], [Federally Enforceable Through Title V]

## Initial TV Permit

# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** S-75-10-4

**EXPIRATION DATE:** 08/31/2007

**EQUIPMENT DESCRIPTION:**

FUEL RECLAMATION, CONVEYING & SCREENING OPERATION INCLUDING 35 TON/HR TRAVELING VARIABLE HEIGHT FUEL RECLAIMER #DC-4 WITH WATER SPRAY SYSTEM AND BOOMING AND SLEWING SYSTEM (SHARED WITH S-75-9) (PHASE II)

## PERMIT UNIT REQUIREMENTS

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1. Fuel reclamation operation shall be equipped with reclaimer table and reclaim transfer conveyor #19. [District NSR Rule], [Federally Enforceable Through Title V]
2. Fuel reclamation operation shall be equipped with self-cleaning belt-type magnetic separator #4, and magnetic discharge take away conveyor #24. [District NSR Rule], [Federally Enforceable Through Title V]
3. Fuel reclamation operation shall be equipped with partially enclosed 35 ton/hr auxiliary reclaim hopper #DC-5 with water sprays, and inclined live chain bottom and double spike roll discharger. [District NSR Rule], [Federally Enforceable Through Title V]
4. Fuel reclamation operation shall be equipped with 35 ton/hr capacity auxiliary reclaimer discharge conveyor #18. [District NSR Rule], [Federally Enforceable Through Title V]
5. Fuel reclamation operation shall be equipped with two position pneumatically operated diverter gate #7. [District NSR Rule], [Federally Enforceable Through Title V]
6. Fuel reclamation operation shall be equipped with 35 ton/hr capacity, secondary screen feed conveyor #20. [District NSR Rule], [Federally Enforceable Through Title V]
7. Fuel reclamation operation shall be equipped with self cleaning, belt type, magnetic separator #5 and collection system. [District NSR Rule], [Federally Enforceable Through Title V]
8. Fuel reclamation operation shall be equipped with two position pneumatically operated diverter gate #8. [District NSR Rule], [Federally Enforceable Through Title V]
9. Fuel reclamation operation shall be equipped with secondary disk type, scalping screen and oversized discharge chute and bunker. [District NSR Rule], [Federally Enforceable Through Title V]
10. Fuel reclamation operation shall be equipped with 35 ton/hr capacity boiler feed conveyor #21. [District NSR Rule], [Federally Enforceable Through Title V]
11. Fuel reclamation operation shall be equipped with ventilation system and fabric collector #9 with minimum of 1500 sq. ft. filter area, maximum air-to-cloth ratio of 8.6 ft/min, 40 hp exhaust fan, reverse air blower, air lock, air header, and screw conveyor. [District NSR Rule], [Federally Enforceable Through Title V]
12. Secondary scalping screen fabric collector #9 shall serve secondary screen conveyor #20, magnetic separator #5, diverter gate #8, secondary scalping screen, discharge chute and bunker, boiler feed conveyor, and beginning of fuel reclamation operation. [District NSR Rule], [Federally Enforceable Through Title V]
13. Fuel reclamation operation shall be equipped with boiler distribution conveyor #DC-6. [District NSR Rule], [Federally Enforceable Through Title V]
14. Fuel reclamation operation shall be equipped with 35 ton/hr capacity, overfeed conveyor #22. [District NSR Rule], [Federally Enforceable Through Title V]
15. Fuel reclamation operation shall be equipped with two position pneumatically operated diverter gate #9. [District NSR Rule], [Federally Enforceable Through Title V]
16. Fuel reclamation operation shall be equipped with abort bunker. [District NSR Rule], [Federally Enforceable Through Title V]
17. Fuel reclamation operation shall be equipped with ventilation system and fabric collector #11 with minimum of 1430 sq. ft. filter area, maximum air-to-cloth ratio of 8.2 ft/min, 50 hp exhaust fan, reverse air blower, air lock, air header, and screw conveyor. [District NSR Rule], [Federally Enforceable Through Title V]

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18. Boiler area fabric collector #11 shall serve boiler distribution conveyor #DC-6, overfeed conveyor #22, diverter gate #9, abort bunker, and existing #BC-9. [District NSR Rule], [Federally Enforceable Through Title V]
19. Conveyor belt ventilation hood(s) shall provide minimum indraft velocity of 500 cfm/ft. of belt width during fuel reclamation, conveying and screening operation. [District NSR Rule], [Federally Enforceable Through Title V]
20. Secondary scalping screen ventilation hood shall provide minimum indraft velocity of 50 ft./min. while screen is in operation. [District NSR Rule], [Federally Enforceable Through Title V]
21. Each fabric collector shall be equipped with adjustable automatic reverse pulse filter cleaning mechanism. [District NSR Rule], [Federally Enforceable Through Title V]
22. Each fabric collector shall be equipped with operational differential pressure indicator. [District NSR Rule], [Federally Enforceable Through Title V]
23. Each fabric collector exhaust stack shall be equipped with adequate stack sampling provisions (ports, platform, ladder, etc.) consistent with EPA test methods. [District Rule 1081], [Federally Enforceable Through Title V]
24. Particulate matter collected by fabric collectors shall be stored in closed containers when such material is not actively being returned to the boiler via permitted conveying equipment. [District NSR Rule], [Federally Enforceable Through Title V]
25. Each ventilation system duct shall be equipped with capped 3/4 in. pitot port in an accessible location to facilitate duct velocity determination measurement. [District NSR Rule], [Federally Enforceable Through Title V]
26. All ventilation system ducts shall be sized for minimum duct transport velocity of 3,400 ft./min. [District NSR Rule], [Federally Enforceable Through Title V]
27. There shall be no visible emissions of 5% opacity or greater from storage pile during reclamation operation. [District NSR Rule], [Federally Enforceable Through Title V]
28. There shall be no visible emissions of 5% opacity or greater from conveyor transfer points, scalping screen, and fuel storage bin, including inlet and outlet openings. [District NSR Rule], [Federally Enforceable Through Title V]
29. Boiler area fabric collector #11 shall be operated whenever material is being transferred from fuel reclamation operation. [District NSR Rule], [Federally Enforceable Through Title V]
30. Fuel transfer conveyors shall be covered and covers shall be in place whenever conveyors are operating. [District NSR Rule], [Federally Enforceable Through Title V]
31. Particulate matter (PM10) emissions from fabric collector #9 shall not exceed 0.0036 gr/scf, and maximum air flow shall not exceed 12,900 cfm. [District NSR Rule], [Federally Enforceable Through Title V]
32. Particulate matter (PM10) emissions from fabric collector #11 shall not exceed 0.0036 gr/scf, and maximum air flow shall not exceed 11,750 cfm. [District NSR Rule], [Federally Enforceable Through Title V]
33. Particulate matter (PM10) emissions at each fabric collector exhaust stack shall be determined by District-witnessed sample collection by independent testing firm within 60 days after startup of this equipment. [District NSR Rule and District Rule 1081], [Federally Enforceable Through Title V]
34. Official test results and field data from compliance testing shall be submitted within 60 days after collection. [District Rule 1081], [Federally Enforceable Through Title V]
35. All access roads and roadways associated with fuel reclamation operation shall be paved and maintained in good condition at all times. [District NSR Rule], [Federally Enforceable Through Title V]
36. Particulate matter collected by fabric collectors shall be disposed of in a manner preventing entrainment in atmosphere. [District NSR Rule], [Federally Enforceable Through Title V]
37. Visible emissions shall be inspected quarterly during operation. If visible emissions are observed, corrective action shall be taken to eliminate visible emissions. If visible emissions cannot be corrected within 24 hours, a visible emissions test using EPA Method 9 shall be conducted. [District Rule 2520, 9.3.2], [Federally Enforceable Through Title V]
38. Dust collector system shall be thoroughly inspected annually for any evidence of particulate matter leaks and shall be repaired as needed. [District Rule 2520, 9.3.2], [Federally Enforceable Through Title V]
39. Dust collector filters shall be thoroughly inspected at least quarterly when the unit is not in operation for tears, scuffs, abrasions, holes, or any evidence of particulate matter leaks and shall be replaced as needed. [District Rule 2520, 9.3.2], [Federally Enforceable Through Title V]
40. Records of dust collector maintenance, inspections, and repair shall be maintained. The records shall include identification of the equipment, date of inspection, corrective action taken, and identification of the individual performing the inspection. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]

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41. Particulate matter emissions shall not exceed the hourly rate as calculated in District Rule 4202 using the equation  $E = 3.59 \times P^{0.62}$ ; P is less than or equal to 30 tons per hour, or  $E = 17.37 \times P^{0.16}$ ; P is greater than 30 tons per hour. [District Rule 4202], [Federally Enforceable Through Title V]
42. Particulate matter emissions shall not exceed 0.1 gr/dscf in concentration. [District Rule 4201 & Kern County Rule 404], [Federally Enforceable Through Title V]

**Initial TV Permit**

**San Joaquin Valley**  
**Air Pollution Control District**

**PERMIT UNIT:** S-75-11-12

**EXPIRATION DATE:** 08/31/2007

**EQUIPMENT DESCRIPTION:**

315 MMBTU/HR EPI FLUIDIZED BUBBLING BED, BIOMASS-FUELED BOILER (UNIT #2) WITH NH<sub>3</sub>, LIMESTONE AND SAND INJECTION, WITH BOILER EXHAUST VENTED TO FABRIC FILTER

**PERMIT UNIT REQUIREMENTS**

1. 15 MMBtu/hr start-up and 40 MMBtu/hr overhead natural gas-fired burners shall be of "low-NO<sub>x</sub>" design utilizing staged combustion principles. [District NSR Rule], [Federally Enforceable Through Title V]
2. Boiler shall be equipped with two steam turbines powering a 24.5 MW (gross) electrical generator. [District NSR Rule], [Federally Enforceable Through Title V]
3. Boiler shall be equipped with sand supply/reinjection system including two bucket elevators. [District NSR Rule], [Federally Enforceable Through Title V]
4. Boiler exhaust shall be served by fabric collector. [District NSR Rule], [Federally Enforceable Through Title V]
5. Fabric collector shall be equipped with operational differential pressure indicator. [District NSR Rule], [Federally Enforceable Through Title V]
6. Combustion air supply lines and auxiliary burner natural gas supply line shall be equipped with operational volumetric flow-rate indicators. [District NSR Rule], [Federally Enforceable Through Title V]
7. Selective non-catalytic reduction ammonia injection system shall be equipped with operational ammonia volume flow-rate indicator. [District NSR Rule], [Federally Enforceable Through Title V]
8. Fabric collector exhaust stack shall be equipped with permanent stack sampling provisions (ports, platform, ladder, etc.) consistent with E.P.A. test methods and District Rule 1081 requirements. [District Rule 1081], [Federally Enforceable Through Title V]
9. Fabric collector exhaust stack shall be equipped with recording continuous monitors for opacity, SO<sub>2</sub>, NO<sub>2</sub>, CO, O<sub>2</sub>, and flue gas volume flow-rate per Rule 1081. [District Rule 1081 and District NSR Rule], [Federally Enforceable Through Title V]
10. Continuous monitoring systems for opacity, SO<sub>2</sub>, NO<sub>2</sub>, CO, and O<sub>2</sub>, shall meet E.P.A. monitoring performance specifications appearing in 40 CFR 60.13 and 40 CFR Appendix B, Performance Specifications 1. 2. 4. & 4A. [40 CFR 60 Subpart Db], [Federally Enforceable Through Title V]
11. Continuous monitoring system for flue gas volume flow-rate shall meet E.P.A. monitoring performance specifications appearing in 40 CFR Part 52 appendix E. [40 CFR 60 Subpart Db], [Federally Enforceable Through Title V]
12. Permittee shall comply in full with the requirements of Rule 4001 New Source Performance Standards part 60 subpart A. and subpart Db. [40 CFR 60 Subpart A and Db], [Federally Enforceable Through Title V]
13. Only PUC quality natural gas, biomass, sand, limestone, ammonia, air, MgO, MgOH and on-site generated dewatered cooling tower sludge shall be introduced into boiler. [District Rule 4102 and District NSR Rule], [Federally Enforceable Through Title V]
14. "Biomass" means any organic material not derived from fossil fuels, such as agricultural crop residue, orchard prunings and removals, stone fruit pits, nut shells, cotton gin trash, cotton stalks, vineyard prunings, cull logs, eucalyptus logs, bark, lawn, yard and garden clippings, leaves, silvicultural residue, tree and brush pruning, wood and wood chips, and wood waste. Biomass does not include material containing sewage sludge or industrial, hazardous, radioactive or municipal solid waste. [District Rule 4102 and District NSR Rule], [Federally Enforceable Through Title V]
15. Wood waste includes clean, chipped wood products, plywood, wood products manufacturing wood materials, construction and demolition wood materials, and wood pallets, crates and boxes. [District Rule 4102 and District NSR Rule], [Federally Enforceable Through Title V]
16. Contamination of the biomass fuel, as delivered to the boiler, shall not exceed 0.04% by weight plastics or 0.62% by weight total of the following materials: metals, plastics, paper, painted wood, particle board, wood treated with preservatives, and non-wood roofing materials (except asbestos). [District Rule 4102]
17. Biomass fuel sulfur content shall not exceed 0.90% by weight on a dry basis. [District NSR Rule], [Federally Enforceable Through Title V]
18. Biomass fuel nitrogen content shall not exceed 2.50% by weight on a dry basis. [District NSR Rule], [Federally Enforceable Through Title V]

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19. Startup burner shall not operate when feed rate of biomass exceeds 20 tons per hour. [District NSR Rule], [Federally Enforceable Through Title V]
20. No more than 1,800 lb/day of MgO shall be added to the fluidized bed combustor. [District NSR Rule], [Federally Enforceable Through Title V]
21. Removal of ash from ash hoppers by manual means shall only be conducted during breakdown conditions or when boiler is not operating, and there shall be no visible emissions for a period or periods aggregating more than three (3) minutes in any one (1) hour which is as dark or darker than ringelmann 1 or 20% opacity. [District Rules 4101 and 4102], [Federally Enforceable Through Title V]
22. Limestone and/or onsite generated cooling tower sludge, shall be injected into boiler at a rate in pounds per ton of biomass fuel introduced into boiler which results in compliance with the SOx emission limitations. [District NSR Rule], [Federally Enforceable Through Title V]
23. Ammonia shall be injected into boiler at a rate, in pounds per ton of biomass fuel introduced into boiler, which results in compliance with the NOx emission limitation. [District NSR Rule], [Federally Enforceable Through Title V]
24. Ammonia injection rate shall be controlled to prevent the emission of free ammonia in excess of 20 ppmv or such level as required to prevent detectable odors or a maximum concentration of 50 ppmv at ground level. [District Rule 4102 and District NSR Rule], [Federally Enforceable Through Title V]
25. NOx and PM10 emission data shall be obtained and provided, as required by NSPS 40CFR60.48b "Emissions monitoring for particulate and nitrogen oxides". CEM data shall be provided as required by 60.48b(f). [40 CFR 60 Subpart Db], [Federally Enforceable Through Title V]
26. Particulate matter (PM10) emissions, except for periods of startup and shutdown as defined in this permit, shall not exceed 0.045 lb/MMBTU of filterable particulates and 14.08 lb/hr of filterable and condensable particulates. [District NSR Rule], [Federally Enforceable Through Title V]
27. Sulfur compound emissions, except for periods of startup and shutdown as defined in this permit, shall not exceed 23 ppmvd @ 3% O2 and 12.09 lb/hr (as SO2). [District NSR Rule], [Federally Enforceable Through Title V]
28. Oxides of nitrogen emissions (as NO2), except for periods of startup and shutdown as defined in this permit, shall not exceed 0.10 lb/MMBTU and 31.50 lb/hr. [District NSR Rule], [Federally Enforceable Through Title V]
29. Volatile organic compound (VOC) emissions, except for periods of startup and shutdown as defined in this permit, shall not exceed 0.020 lb/MMBTU and 6.3 lb/hr. [District NSR Rule], [Federally Enforceable Through Title V]
30. Carbon monoxide (CO) emissions, except for periods of startup and shutdown as defined in this permit, shall not exceed 183 ppmvd @ 3% CO2 and 44.10 lb/hr. [District NSR Rule], [Federally Enforceable Through Title V]
31. Emission rates shall not exceed any of the following: PM10: 337.9 lb/day, SOx (as SO2): 290.2 lb/day, NOx (as NO2): 756.0 lb/day, VOC: 151.2 lb/day or CO (except during days of refractory cure): 1058.4 lb/day. [District NSR Rule], [Federally Enforceable Through Title V]
32. On days of refractory cure, CO emissions shall not exceed 6,240 lb/day and heat input to boiler shall not exceed 3,206.6 MMBtu/day. CO emission limit on each refractory cure day shall be determined by records of fuel use, fuel heat content, and resulting maximum daily heat rate. [District NSR Rule], [Federally Enforceable Through Title V]
33. This boiler shall not be operated under refractory cure conditions for more than 6 days per year. Refractory cure shall not be performed on more than one unit (Boiler #1, S-75-6 or Boiler #2, S-75-11) at any time. [District NSR Rule], [Federally Enforceable Through Title V]
34. Permittee shall notify the District in writing of the start date and end date of operating under refractory cure and alternate CO emission limit condition. [District NSR Rule], [Federally Enforceable Through Title V]
35. Excess emissions of PM10 shall be defined as any three hour period during which the average emissions of PM10 exceeds any emission limit. [District NSR Rule], [Federally Enforceable Through Title V]
36. Excess emissions of NOx, SOx, and CO as shown by the continuous monitoring system shall be defined as any 24 hour period during which the average emissions of NOx, SOx, or CO exceed any emissions limit. [District NSR Rule], [Federally Enforceable Through Title V]
37. Excess emissions for NOx, SOx, and CO as shown by a performance test shall be defined as any three hour period during which the average emissions of NOx, SOx, or CO exceed any emission limit. [District NSR Rule], [Federally Enforceable Through Title V]
38. "Startup" is the period of time during which the boiler is heated to operating temperature at steady state load from a lower temperature, not to exceed 36 hours. This does not include utility curtailment load ramping between 75 and 100%. [District NSR Rule], [Federally Enforceable Through Title V]
39. If curing of the refractory is required after furnace repair or modification, startup time may be extended to no longer than 60 hours. [District NSR Rule], [Federally Enforceable Through Title V]
40. "Shutdown" is the period of time during which the boiler is allowed to cool from its operating temperature at steady state load to a lower temperature, not to exceed 8 hours. This does not include utility curtailment load ramping between 100 & 75%. [District NSR Rule], [Federally Enforceable Through Title V]
41. "Steady state" load is defined as the operational conditions that generate electrical power at + or - one (1) megawatt from the target load established and documented by control room log book. [District NSR Rule], [Federally Enforceable Through Title V]

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42. Annual audits of continuous monitors shall be conducted by independent laboratory in accordance with E.P.A. guidelines, shall be witnessed by District and results shall be submitted to District within 60 days of such audit pursuant to Rule 1080. [District Rule 1080], [Federally Enforceable Through Title V]
43. Upon District request, a District approved 25 ton representative sample of biomass fuel in the reclaim pile shall be sorted. [District Rule 4102]
44. Data collected during sorting of 25 ton sample of biomass fuel shall be in pounds of material per ton of biomass, by category as identified in fuel contamination limit condition, and official test results and field data shall be submitted within 30 days after collection. [District Rule 4102]
45. District-witnessed emission sample collection for PM<sub>10</sub>, SO<sub>x</sub>, NO<sub>x</sub> and CO (except CO during designated refractory cure days) shall be conducted by an independent testing laboratory annually 60 days prior to permit anniversary date of August 31, or within 60 days of start-up if the unit did not operate between July 3 and August 31. [District Rule 1081], [Federally Enforceable Through Title V]
46. Source testing for the following parameters shall be conducted using the stated test methods: NO<sub>x</sub> - EPA Method 7 or ARB Method 100, CO - EPA Method 10 or ARB Method 100, CO<sub>2</sub> - EPA Method 3 or ARB Method 100, O<sub>2</sub> - EPA Method 3 or ARB Method 100, SO<sub>2</sub> - EPA Method 6 or ARB Method 100, PM<sub>10</sub> - EPA Methods 201A & 202 or Method 5, Stack Gas Flow Rate - EPA Method 2, Moisture Content - EPA Method 4, Ammonia - BAAQMD ST1B, & Fuel Heating Value - ASTM Method D2015-85 or E711. [District NSR Rule], [Federally Enforceable Through Title V]
47. Official test results and field data from compliance testing shall be submitted within 60 days after collection. [District Rule 1081], [Federally Enforceable Through Title V]
48. NO<sub>x</sub> emissions shall not exceed 275,920 lb in any 12 month period. [District NSR Rule], [Federally Enforceable Through Title V]
49. Permittee shall project and use the proper mix of fuels to ensure that actual emissions from boiler S-75-11 are offset with creditable biomass on a quarterly basis. Quarterly NO<sub>x</sub> emission offsets required from creditable biomass = (Actual quarterly emissions) - (604.8 lb/day x days/qtr). [District NSR Rule], [Federally Enforceable Through Title V]
50. Open-burning emission factors used to determine the quantity of offsets available from the diversion of biomass from open-burning are listed in the attachment "Open Burn Emission Factors" (District policy SSP-2005). [District NSR Rule], [Federally Enforceable Through Title V]
51. If quarterly actual NO<sub>x</sub> emissions from boiler S-75-11 are greater than zero, the emission reduction credit from creditable biomass fuel shall be calculated for NO<sub>x</sub> using the following formula:  $Pq = x * [\sum_{j=1}^n (B_j) * (EF_j) * (HBF_j) * (QDF_{jq})]$  where: Pq= Pollutant offset credit in lb/qtr = sum of NO<sub>x</sub> emissions from ag waste credit < 15 miles + NO<sub>x</sub> emissions > 15 miles from facility. q = calendar quarter, x = 0.5 for biomass originating > 15 miles and 0.833 for < 15 miles. j = each creditable biomass type. B = tons of biomass type (j) used per quarter. EF = emission factor for particular biomass (from SSP-2005). HBF<sub>j</sub> = fraction of biomass type (j) that has been demonstrated to have historically open field burned (for orchard prunings HBF=0.96, for other biomass a District approved HBF factor must be used). QDF<sub>jq</sub> = Quarterly distribution factor - fraction of burning of biomass (j) which occurs in calendar quarter (q). For orchard prunings QDF = Q1: 0.251, Q2: 0.275, Q3: 0.149, Q4: 0.325. [District NSR Rule], [Federally Enforceable Through Title V]
52. Permittee shall maintain accurate records of continuous emissions monitoring (CEM) results, dates of occurrences and duration of start-up, shutdown, malfunction, performance testing, evaluations, calibrations, checks, adjustments and maintenance, and daily records of natural gas fuel usage. [District Rule 1080 and District NSR Rule], [Federally Enforceable Through Title V]
53. Daily records for each load of creditable biomass received shall be maintained which include the geographic origin (for applicability of distance offset ratio), date, weigh ticket number, supplier name, fuel type, tons received, the offset ratio for the load of biomass, and the amount of offset credit (in pounds of NO<sub>x</sub>) attributable to each load of biomass. Records shall include certifications that any creditable biomass for which offset credit is claimed has historically been open burned in the San Joaquin Valley air basin. [District NSR Rule], [Federally Enforceable Through Title V]
54. Permittee shall submit to the District a quarterly report accounting for the tonnage of agricultural waste eliminated from open field burning and used as plant fuel. [District NSR Rule], [Federally Enforceable Through Title V]
55. Quarterly report of agricultural waste eliminated from open field burning (to offset NO<sub>x</sub> emissions) used as fuel at facility shall document creditable ag waste fuel receipt quantities, if fuel originates > 15 miles from facility, offset credit ratios, emission factors used, and summary of the resultant emissions offsets provided using "the procedure", and shall be submitted to the District within 30 days of the end of the quarter. [District NSR Rule], [Federally Enforceable Through Title V]
56. Quarterly report, of agricultural waste eliminated from open field burning used for the purpose of providing required NO<sub>x</sub> offsets, shall document historical biomass fraction (HBF) and quarterly distribution factor (QDF) for each biomass fuel used to calculate credit. For orchard prunings HBF = 0.96 and QDF = as stated in this permit. [District NSR Rule], [Federally Enforceable Through Title V]
57. This PTO involved a NO<sub>x</sub> BACT re-determination, which was based on the argument that relaxing the NO<sub>x</sub> BACT limit would eliminate optically dense visible emissions. Should optically dense visible emissions continue or recur, this BACT re-determination shall be nullified, and the NO<sub>x</sub> BACT emission limit shall revert to 0.08 lb/MMBtu. [District NSR Rule], [Federally Enforceable Through Title V]
58. FACILITIES OPERATION: All equipment, facilities, and systems shall at all times be maintained in good working order and be operated as efficiently as possible so as to minimize air pollutant emissions. [PSD ATC SJ 90-01], [Federally Enforceable Through Title V]



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59. **MALFUNCTION:** The Director of the Air and Toxics Division shall be notified by telephone within 48 hours following any failure of air pollution control equipment, process equipment, or of a process to operate in a normal manner which results in an increase in emissions above any allowable emissions limit. In addition, the Director of the Air and Toxics Division shall be notified in writing within fifteen (15) days of any such failure. This notification shall include a description of the malfunctioning equipment or abnormal operation, the date of the initial failure, the period of time over which emissions were increased due to the failure, the cause of the failure, the estimated resultant emissions in excess of those allowed, and the methods utilized to restore normal operations. Compliance with this malfunction notification provision shall not excuse or otherwise constitute a defense to any violations of the permit or of any law or regulations which such malfunction may cause. [PSD ATC SJ 90-01], [Federally Enforceable Through Title V]
60. **RIGHT TO ENTRY:** The Regional Administrator, the head of the State Air Pollution Control Agency, the head of the responsible local air pollution control agency, and/or their authorized representatives, upon the presentation of credentials, shall be permitted: A) to enter upon the premises where the source is located or in which any records are required to be kept under the terms and conditions of this permit; B) at reasonable times to have access to and copy any records required to be kept under the terms and conditions of this permit; C) to inspect any equipment, operation, or method required in this permit; D) to sample emissions from the source. [PSD ATC SJ 90-01], [Federally Enforceable Through Title V]
61. **TRANSFER OF OWNERSHIP:** In the event of any changes in control or ownership, this permit shall be binding on all subsequent owners and operators. The applicant shall notify the succeeding owner and operator of the existence of this permit and its conditions by letter, a copy of which shall be forwarded to the Regional Administrator and the State and local Air Pollution Control Agency. [PSD ATC SJ 90-01], [Federally Enforceable Through Title V]
62. **SEVERABILITY:** The provisions of this permit are severable, and, if any provisions of this permit is held invalid, the remainder of this permit shall not be affected thereby. [PSD ATC SJ 90-01], [Federally Enforceable Through Title V]
63. **OTHER APPLICABLE REGULATIONS:** The owner and operator shall operate the stationary source in compliance with all other applicable provisions of 40 CFR Parts 52, 60 and 61 and all other applicable federal, state and local air quality regulations. [PSD ATC SJ 90-01], [Federally Enforceable Through Title V]
64. **AIR POLLUTION CONTROL EQUIPMENT:** Limestone shall be injected directly into the combustion chambers of the boiler as required to attain the emission limit for SO<sub>2</sub>. Based on previous operating experience, DECI shall, to the best of its ability, anticipate periods when a high sulfur biomass fuel and/or inherently low calcium bearing biomass fuel is utilized such that the addition of limestone is required to attain the emission limits. A SNCR system utilizing ammonia injection shall be incorporated within the boilers. Ammonia shall be injected continuously during all periods of operation at a rate which results in compliance with the NO<sub>x</sub> emission limits. It is ultimately, DECI's burden to maintain SO<sub>2</sub> and NO<sub>x</sub> emissions below the limits given in this permit during all periods of operations independent of biomass fuel type and fuel availability. Biomass fuel type, availability, and/or composition can not be utilized as a rationale for excess emissions. [PSD ATC SJ 90-01], [Federally Enforceable Through Title V]
65. **PERFORMANCE TESTS:** At times as specified by EPA, DECI shall conduct performance tests for SO<sub>2</sub>, NO<sub>x</sub>, CO, and PM<sub>10</sub> and furnish the Kern County Air Pollution Control District and EPA a written report of the results of such tests. The tests for SO<sub>2</sub>, NO<sub>x</sub>, CO, and PM<sub>10</sub> shall be conducted on an annual basis and at the maximum operating capacity of the facility being tested. Upon written request (Attn: A-3-3) from DECI, EPA may approve the conducting of performance tests at a lower specified production rate. Also, upon written request from DECI, EPA may approve the deletion of a specific annual test for the combustion unit. [PSD ATC SJ 90-01], [Federally Enforceable Through Title V]
66. **PERFORMANCE TEST METHODS:** Performance tests for the emissions of SO<sub>2</sub>, NO<sub>x</sub>, CO, and PM<sub>10</sub> shall be conducted and the results reported in accordance with the test methods set forth in 40 CFR 60, Part 60.8 and Appendix A and 40 CFR Part 51 Appendix M. The following test methods shall be used: a) Performance tests for the emission of SO<sub>2</sub> shall be conducted using EPA Methods 1-4, and b) Performance tests for the emissions of NO<sub>x</sub> shall be conducted using EPA Methods 1-4, and c) Performance tests for the emissions of PM<sub>10</sub> shall be conducted using EPA Method 201(a), and d) Performance tests for the emissions of CO shall be conducted using EPA Methods 1-4 and 10. [PSD ATC SJ 90-01], [Federally Enforceable Through Title V]
67. **PERFORMANCE TEST NOTICE:** EPA (Attn: A-3-3) shall be notified in writing at least 30 days prior to such tests to allow time for the development of an approvable performance test plan and to arrange for an observer to be present at the test. Such prior approval will minimize the possibility of EPA rejection of test results for procedural deficiencies. In lieu of the above mentioned test methods, equivalent methods may be used with prior written approval from EPA. [PSD ATC SJ 90-01], [Federally Enforceable Through Title V]
68. **PERFORMANCE TEST ACCOMMODATIONS:** For performance test purposes, sampling ports, platforms, and access shall be provided by DECI on the combustion exhaust system in accordance with 40 CFR 60.8(e). [PSD ATC SJ 90-01], [Federally Enforceable Through Title V]
69. **SO<sub>2</sub> EMISSION LIMIT:** Boiler shall not discharge or cause the discharge into the atmosphere SO<sub>2</sub> in excess of the more stringent of 10.4 lb/hr or 18.8 ppmvd @ 3% O<sub>2</sub> (3-hour rolling average) or 249.6 lb/day from the stack venting the boiler. [PSD ATC SJ 90-01], [Federally Enforceable Through Title V]
70. **NO<sub>x</sub> EMISSION LIMIT:** Boiler shall not discharge or cause the discharge into the atmosphere NO<sub>x</sub> (asNO<sub>2</sub>) in excess of the more stringent of 25.2 lb/hr or 63 ppmvd @ 3% O<sub>2</sub> (24-hour rolling average) or 604.8 lb/day from the stack venting the boiler. [PSD ATC SJ 90-01], [Federally Enforceable Through Title V]

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71. PM10 EMISSION LIMIT: Boiler shall not discharge or cause the discharge into the atmosphere filterable PM10 in excess of the more stringent of 7.0 lb/hr or 0.01 gr/dscf @ 12% CO<sub>2</sub> (3-hour rolling average) or 169 lb/day from the stack venting the boiler. [PSD ATC SJ 90-01], [Federally Enforceable Through Title V]
72. CO EMISSION LIMIT: Boiler shall not discharge or cause the discharge into the atmosphere CO in excess of the more stringent of 44.1 lb/hr or 183 ppmvd @ 3% O<sub>2</sub> (3-hour rolling average) or 1058.4 lb/day from the stack venting the boiler. [PSD ATC SJ 90-01], [Federally Enforceable Through Title V]
73. OPACITY: Boiler shall not discharge or cause the discharge into the atmosphere any gases with an opacity in excess of 20% except for aggregate periods of less than 3 minutes in any one hour period from each of the stacks venting each of the fluidized bed combustion units. [PSD ATC SJ 90-01], [Federally Enforceable Through Title V]
74. BOILER HEAT INPUT: DECI shall continuously record the steam output and the steam temperature and pressure from the boiler; also, DECI shall determine the boiler efficiency annually. The heat input, as determined from the boiler efficiency and steam production rate, shall not exceed 315 MMBtu/hr. [PSD ATC SJ 90-01], [Federally Enforceable Through Title V]
75. OFFSET RESTRICTION: If the emission limit for any of the above pollutants (SO<sub>2</sub>, NO<sub>x</sub>, PM10, and CO) is revised, the difference between the pollutant emission limit set forth above and the lower pollutant emission limit shall not be allowed as an emission offset for future construction or modification. [PSD ATC SJ 90-01], [Federally Enforceable Through Title V]
76. CONTINUOUS MONITORING: DECI shall maintain and operate a continuous monitoring system to measure stack gas NO<sub>x</sub>, CO, SO<sub>x</sub>, O<sub>2</sub> and Opacity in the stack venting the fluidized bed boiler. The system shall meet EPA monitoring performance specification (40 CFR 60.13 and 40 CFR 60, Appendix B, Performance Specifications 1,2,3,and 4). [PSD ATC SJ 90-01], [Federally Enforceable Through Title V]
77. CONTINUOUS MONITORING: DECI shall maintain and operate a continuous monitoring system to measure stack gas volumetric flow rates in the stack venting the fluidized bed boiler. The system shall meet EPA monitoring performance specification (40 CFR Part 60, Appendix B, Performance Specification 6). [PSD ATC SJ 90-01], [Federally Enforceable Through Title V]
78. CONTINUOUS MONITORING REPORT: DECI shall submit a written report of all excess emissions to EPA (Attn: A-3-3) for every calendar quarter. The report shall include the following: a) The magnitude of excess emissions computed in accordance with 40 CFR 60.13(h), any conversion factor(s) used, and the date and time of commencement and completion of each time period of excess emissions. b) Specific identification of each period of excess emissions that occurs during start-ups, shutdowns, and malfunctions of any of the boilers. The nature and cause of any malfunction (if known) and the corrective action take or preventative measures adopted shall also be reported. c) The date and time identifying each period during which the continuous monitoring system was inoperative except for zero and span checks and the nature of the system repairs or adjustments. d) When no excess emissions have occurred or the continuous monitoring system has not been inoperative, repaired, or adjusted, such information shall be stated in the report. [PSD ATC SJ 90-01], [Federally Enforceable Through Title V]
79. CONTINUOUS MONITORING: Excess emissions shall be defined as any three-hour period during which the average emissions of PM10, SO<sub>2</sub>, and/or CO, as measured by the continuous monitoring system or by a performance test, exceeds the maximum emission limits. [PSD ATC SJ 90-01], [Federally Enforceable Through Title V]
80. CONTINUOUS MONITORING: Excess emissions shall be defined as any 24-hour period during which the average emissions of NO<sub>x</sub>, as measured by the continuous monitoring system or by a performance test, exceeds the NO<sub>x</sub> maximum emission limit. [PSD ATC SJ 90-01], [Federally Enforceable Through Title V]
81. CONTINUOUS MONITORING: Excess emissions shall be defined as any three-minute period during which the average opacity as measured by the continuous monitoring system exceed the maximum emission limit. [PSD ATC SJ 90-01], [Federally Enforceable Through Title V]
82. CONTINUOUS MONITORING: Excess emissions indicated by the CEM system shall be considered violations of the applicable emission limits for the purposes of this permit except for SO<sub>2</sub> and CO 3-hour emission limits and the opacity minute limit during normal startup or shutdown: (1) Startup shall be considered that period of time during which the boiler is heated to operating temperature at steady state load from a lower temperature, not to exceed 36 hours. This does not include utility curtailment load ramping between 75 and 100%. If curing of the refractory is required after furnace repair or modification, startup time may be extended to no longer than 60 hours. (2) Shutdown shall be considered that period of time during which the boiler is allowed to cool from its operating temperature at steady state load to a lower temperature, not to exceed 8 hours. This does not include utility curtailment load ramping between 100 and 75%. (3) Daily emission limits apply at all times except during refractory cure. [PSD ATC SJ 90-01], [Federally Enforceable Through Title V]
83. CONTINUOUS MONITORING: DECI shall maintain a file of all measurements, including continuous monitoring system, monitoring device, and performance testing measurements; all continuous monitoring system performance evaluations; all continuous monitoring system or monitoring device calibration checks; adjustments and maintenance performed on these systems or devices; and all other information required by 40 CFR 60 recorded in a permanent form suitable for inspection. [PSD ATC SJ 90-01], [Federally Enforceable Through Title V]
84. FUEL USE: Only PUC quality natural gas, biomass, sand, limestone, ammonia, air and onsite generated, dewatered cooling tower sludge shall be fired in boiler. [PSD ATC SJ 90-01], [Federally Enforceable Through Title V]
85. FUEL USE: Biomass fuel sulfur shall not exceed 0.90% dry weight and biomass fuel nitrogen shall not exceed 2.5% dry weight. [PSD ATC SJ 90-01], [Federally Enforceable Through Title V]

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86. FUEL USE: Biomass means any organic material not derived from fossil fuels, such as agricultural crop residue, orchard prunings and removals, stone fruit pits, nut shells, cotton gin trash, cotton stalks, vineyard prunings, cull logs, eucalyptus logs, bark, lawn yard and garden clippings, leaves, silvicultural residue, tree and brush pruning, wood and wood chips and wood waste, including clean, chipped wood products, plywood, particle board, fiberboard and wood products manufacturing wastes, wood based construction demolition materials, pallets, crates and boxes. Biomass shall not include material containing sewage sludge, industrial waste, hazardous waste or municipal solid waste. [PSD ATC SJ 90-01], [Federally Enforceable Through Title V]
87. FUEL USE: Additional biomass fuels may be administratively appended to this list upon a written request by the permittee to add an unlisted fuel, and provided the permittee can demonstrate that emissions of affected pollutants will not increase and that the boiler is designed to accommodate such fuel without physical or operational modifications. [PSD ATC SJ 90-01], [Federally Enforceable Through Title V]
88. FUEL USE: Biomass shall not include material containing sewage sludge, industrial waste, hazardous waste or municipal waste. In addition, contamination of the biomass fuel shall not exceed 0.04% by weight plastics and 0.62% by weight of metals, plastics, paper, painted wood, preservative treated wood and nonwood roofing materials (except asbestos). [PSD ATC SJ 90-01], [Federally Enforceable Through Title V]
89. FUEL USE: The permittee shall continuously record the steam output from the boiler and shall annually determine boiler efficiency from the results of boiler efficiency tests. From these parameters the heat input to the boiler (on a 365 day rolling average) shall be determined and recorded. The heat input as determined from the boiler efficiency and steam production rate shall not exceed 315 MMBtu/hr. [PSD ATC SJ 90-01], [Federally Enforceable Through Title V]
90. FUEL USE: The boiler shall not consume more than 142,857.1 scf/hr of natural gas with a higher heating value of 1,050 Btu/scf through the inbed and overbed burners. [PSD ATC SJ 90-01], [Federally Enforceable Through Title V]
91. FUEL USE: The boiler shall not consume more than 14,285.7 scf/hr of natural gas with a higher heating value (HHV) of 1,050 Btu/scf through the startup burner. [PSD ATC SJ 90-01], [Federally Enforceable Through Title V]
92. FUEL USE: The startup burner shall only be used for startup purposes. [PSD ATC SJ 90-01], [Federally Enforceable Through Title V]
93. FUEL USE: The total heat input into the boiler shall not exceed 315 MMBtu/hr (HHV) when firing with both biomass and natural gas. [PSD ATC SJ 90-01], [Federally Enforceable Through Title V]
94. NEW SOURCE PERFORMANCE STANDARDS: The boiler shall meet all applicable requirements of 40 CFR 60 Subparts A and Db. [PSD ATC SJ 90-01], [Federally Enforceable Through Title V]
95. AGENCY NOTIFICATIONS: All correspondence as required by this Operating Permit shall be forwarded to the following addresses: 1) Director, Air and Toxics Division (Attn: A-3-3), EPA Region 9, 75 Hawthorne St, San Francisco, CA 94105; 2) Chief, Stationary Source Division, California Air Resources Board, PO Box 2815, Sacramento, CA 95812; 3) Assistant Air Pollution Control Officer, SJVUAPCD, 2700 "M" Street, Suite 275, Bakersfield, CA 93301. [PSD ATC SJ 90-01], [Federally Enforceable Through Title V]
96. The owner/operator shall maintain an operating log that includes the type and quantity of fuel used and the hmv of each fuel as determined by District Rule 4352, section 6.4 (as amended 10/19/95), or as certified by a third party fuel supplier. [District Rule 4352], [Federally Enforceable Through Title V]
97. Dust collection system shall be completely inspected annually for evidence of particulate matter breakthrough and repaired as needed. [District Rule 2520, 9.3.2], [Federally Enforceable Through Title V]
98. Records of dust collector maintenance, inspections, and repair shall be maintained. The records shall include identification of the equipment, date of inspection, corrective action taken, and identification of the individual performing the inspection. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
99. Particulate Matter emissions shall not exceed 10.0 lb/hr. [District Rule 4301], [Federally Enforceable Through Title V]

## Initial TV Permit

# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** S-75-12-2

**EXPIRATION DATE:** 08/31/2007

**EQUIPMENT DESCRIPTION:**

5,236 GALLON LIMESTONE RECEIVING & STORAGE SILO (UNIT #2) INCLUDING VIBRATING BIN BOTTOM, PNEUMATIC CONVEYING SYSTEM WITH 25 HP MOTOR AND 162 SQUARE FOOT BIN VENT FILTER WITH 1 HP EXHAUST FAN AND PNEUMATIC PULSE JET BAG SHAKING SYSTEM

## PERMIT UNIT REQUIREMENTS

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1. Storage silo shall vent only through bin vent filter. [District NSR Rule], [Federally Enforceable Through Title V]
2. Bin vent filter shall have a maximum air to cloth ratio of 5 ft/min and a minimum filter area of 162 square feet. [District NSR Rule], [Federally Enforceable Through Title V]
3. Bin vent filter shall be equipped with an operational differential pressure indicator. [District NSR Rule], [Federally Enforceable Through Title V]
4. Only crushed limestone shall be handled. [District NSR Rule], [Federally Enforceable Through Title V]
5. Material collected by bin vent filter shall fall by gravity into storage silo. [District NSR Rule], [Federally Enforceable Through Title V]
6. There shall be no emissions in excess of 5% opacity from silo bin vent filter exhaust stack. [District NSR Rule], [Federally Enforceable Through Title V]
7. Silo shall not operate more than 7 hours/day. [District NSR Rule], [Federally Enforceable Through Title V]
8. Particulate matter emissions shall not exceed 0.010 grains/dscf in concentration. [District NSR Rule], [Federally Enforceable Through Title V]
9. PM-10 emissions shall be measured by District-witnessed sample collection by independent testing firm upon detection of visible emissions. [District NSR Rule and District Rule 1081], [Federally Enforceable Through Title V]
10. The results of each source test shall be submitted to the District within 60 days thereafter. [District Rule 1081], [Federally Enforceable Through Title V]
11. Permittee shall keep records of amounts and size of limestone received and make such records readily available for District inspection upon request. [District NSR Rule], [Federally Enforceable Through Title V]
12. Visible emissions shall be inspected annually during operation. If visible emissions are observed, corrective action shall be taken to eliminate visible emissions. If visible emissions cannot be corrected within 24 hours, a visible emissions test using EPA Method 9 shall be conducted. [District Rule 2520, 9.3.2], [Federally Enforceable Through Title V]
13. Dust collector system shall be thoroughly inspected annually for any evidence of particulate matter leaks and shall be repaired as needed. [District Rule 2520, 9.3.2], [Federally Enforceable Through Title V]
14. Dust collector filters shall be thoroughly inspected at least annually when the unit is not in operation for tears, scuffs, abrasions, holes, or any evidence of particulate matter leaks and shall be replaced as needed. [District Rule 2520, 9.3.2], [Federally Enforceable Through Title V]
15. Records of dust collector maintenance, hours of operation, inspections, and repair shall be maintained. The records shall include identification of the equipment, date of inspection, corrective action taken, and identification of the individual performing the inspection. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
16. Operator shall record the daily hours of operation for this unit. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
17. Particulate matter emissions shall not exceed the hourly rate as calculated in District Rule 4202 using the equation  $E = 3.59 \times P^{0.62}$ ; P is less than or equal to 30 tons per hour, or  $E = 17.37 \times P^{0.16}$ ; P is greater than 30 tons per hour. [District Rule 4202], [Federally Enforceable Through Title V]

**Initial TV Permit**

**San Joaquin Valley**  
**Air Pollution Control District**

**PERMIT UNIT:** S-75-13-2

**EXPIRATION DATE:** 08/31/2007

**EQUIPMENT DESCRIPTION:**

45,886 GALLON SAND STORAGE SILO (UNIT #2) INCLUDING PNEUMATIC CONVEYING SYSTEM AND BIN VENT FILTER WITH 162 SQUARE FEET OF FILTERING AREA, 1.0 HP EXHAUST FAN AND PNEUMATIC PULSE JET BAG SHAKING SYSTEM

## **PERMIT UNIT REQUIREMENTS**

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1. Storage silo shall vent only through bin vent filter. [District NSR Rule], [Federally Enforceable Through Title V]
2. Bin vent filter shall have a maximum air to cloth ratio of 5 ft/min. [District NSR Rule], [Federally Enforceable Through Title V]
3. Bin vent filter shall have a minimum filter area of 162 square feet. [District NSR Rule], [Federally Enforceable Through Title V]
4. Bin vent filter shall be equipped with an operational differential pressure indicator. [District NSR Rule], [Federally Enforceable Through Title V]
5. Material collected by bin vent filter shall fall by gravity into storage silo. [District NSR Rule], [Federally Enforceable Through Title V]
6. There shall be no emissions in excess of 5% opacity from silo bin vent filter exhaust stack. [District NSR Rule], [Federally Enforceable Through Title V]
7. Silo shall not operate more than 7 hours/day. [District NSR Rule], [Federally Enforceable Through Title V]
8. Particulate matter emissions shall not exceed 0.010 grains/dscf in concentration. [District NSR Rule], [Federally Enforceable Through Title V]
9. PM-10 emissions shall be measured by District-witnessed sample collection by independent testing firm upon detection of visible emissions. [District NSR Rule and District Rule 1081], [Federally Enforceable Through Title V]
10. The results of each source test shall be submitted to the District within 60 days thereafter. [District Rule 1081], [Federally Enforceable Through Title V]
11. Permittee shall keep records of amounts and size of sand received and make such records readily available for District inspection upon request. [District NSR Rule], [Federally Enforceable Through Title V]
12. Visible emissions shall be inspected annually during operation. If visible emissions are observed, corrective action shall be taken to eliminate visible emissions. If visible emissions cannot be corrected within 24 hours, a visible emissions test using EPA Method 9 shall be conducted. [District Rule 2520, 9.3.2], [Federally Enforceable Through Title V]
13. Dust collector system shall be thoroughly inspected annually for any evidence of particulate matter leaks and shall be repaired as needed. [District Rule 2520, 9.3.2], [Federally Enforceable Through Title V]
14. Dust collector filters shall be thoroughly inspected at least annually when the unit is not in operation for tears, scuffs, abrasions, holes, or any evidence of particulate matter leaks and shall be replaced as needed. [District Rule 2520, 9.3.2], [Federally Enforceable Through Title V]
15. Records of dust collector maintenance, hours of operation, inspections, and repair shall be maintained. The records shall include identification of the equipment, date of inspection, corrective action taken, and identification of the individual performing the inspection. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
16. Operator shall record the daily hours of operation for this unit. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
17. Particulate matter emissions shall not exceed the hourly rate as calculated in District Rule 4202 using the equation  $E = 3.59 \times P^{0.62}$ ; P is less than or equal to 30 tons per hour, or  $E = 17.37 \times P^{0.16}$ ; P is greater than 30 tons per hour. [District Rule 4202], [Federally Enforceable Through Title V]

**Initial TV Permit**

**San Joaquin Valley**  
**Air Pollution Control District**

**PERMIT UNIT:** S-75-16-1

**EXPIRATION DATE:** 08/31/2007

**EQUIPMENT DESCRIPTION:**

EMERGENCY FIRE WATER PUMP POWERED BY 244 HP CUMMINS DIESEL-FIRED INTERNAL COMBUSTION ENGINE EQUIPPED WITH TURBOCHARGER, INTERCOOLER AND POSITIVE CRANKCASE VENTILATION.

**PERMIT UNIT REQUIREMENTS**

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1. Operation of the engine for maintenance and testing purposes shall not exceed 200 hours per year. [District Rule 4701 & NSR Rule], [Federally Enforceable Through Title V]
  2. Operation of the engine, for other than maintenance purposes, shall be limited to emergency use. [District Rule 4701 & NSR Rule], [Federally Enforceable Through Title V]
  3. The engine shall be operated with the timing retarded four degrees from the manufacturer's standard recommended timing (unless voids UL or Fire Marshall certification). [District NSR Rule], [Federally Enforceable Through Title V]
  4. The sulfur content of the diesel fuel used shall not exceed 0.05% by weight. [District Rule 4801 & NSR Rule], [Federally Enforceable Through Title V]
  5. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201], [Federally Enforceable Through Title V]
  6. If the engine exhibits visible emissions greater than 5% opacity, District-witnessed compliance testing for particulate matter emissions shall be conducted by an independent testing laboratory. [District NSR Rule], [Federally Enforceable Through Title V]
  7. The results of each source test shall be submitted to the District within 60 days thereafter. [District Rule 1081], [Federally Enforceable Through Title V]
  8. The permittee shall maintain records of hours of operation and of the sulfur content of the diesel fuel used and shall make such records readily available to District staff upon request. [District NSR Rule], [Federally Enforceable Through Title V]
  9. Sulfur compound emissions shall not exceed 0.2% by volume, 2000 ppmv, on a dry basis averaged over 15 consecutive minutes. [Rule 404 (Madera), 406 (Fresno) and 407 (6 remaining counties in the San Joaquin Valley)], [Federally Enforceable Through Title V]
  10. If the IC engine is fired on Air Resources Board regulated diesel fuel, with a supplier certified sulfur content less than 0.05% by weight, the operator shall maintain copies of all fuel invoices and supplier certifications. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
  11. If the IC engine is not fired on ARB regulated diesel fuel, with a supplier certified sulfur content less than 0.05% by weight, then the owner or operator shall determine the sulfur content of each delivery of diesel fuel being fired in the IC engine. The sulfur content shall be determined using ASTM method D 2880. [District Rule 2520, 9.3.2], [Federally Enforceable Through Title V]

**Initial TV Permit**

**San Joaquin Valley**  
**Air Pollution Control District**

**PERMIT UNIT:** S-75-17-1

**EXPIRATION DATE:** 08/31/2007

**EQUIPMENT DESCRIPTION:**

EMERGENCY ELECTRICAL GENERATOR POWERED BY 830 BHP DETROIT DIESEL-FIRED INTERNAL COMBUSTION ENGINE EQUIPPED WITH TURBOCHARGER, INTERCOOLER AND POSITIVE CRANKCASE VENTILATION.

**PERMIT UNIT REQUIREMENTS**

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1. Operation of the engine for maintenance and testing purposes shall not exceed 200 hours per year. [District Rule 4701 & NSR Rule], [Federally Enforceable Through Title V]
  2. Operation of the engine, for other than maintenance purposes, shall be limited to emergency use. [District Rule 4701 & NSR Rule], [Federally Enforceable Through Title V]
  3. The engine shall be operated with the timing retarded four degrees from the manufacturer's standard recommended timing (unless voids UL or Fire Marshall certification). [District NSR Rule], [Federally Enforceable Through Title V]
  4. The sulfur content of the diesel fuel used shall not exceed 0.05% by weight. [District Rule 4801& NSR Rule], [Federally Enforceable Through Title V]
  5. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201], [Federally Enforceable Through Title V]
  6. If the engine exhibits visible emissions greater than 5% opacity, District-witnessed compliance testing for particulate matter emissions shall be conducted by an independent testing laboratory. [District NSR Rule], [Federally Enforceable Through Title V]
  7. The results of each source test shall be submitted to the District within 60 days thereafter. [District Rule 1081], [Federally Enforceable Through Title V]
  8. The permittee shall maintain records of hours of operation and of the sulfur content of the diesel fuel used and shall make such records readily available to District staff upon request. [District NSR Rule], [Federally Enforceable Through Title V]
  9. Sulfur compound emissions shall not exceed 0.2% by volume, 2000 ppmv, on a dry basis averaged over 15 consecutive minutes. [Rule 404 (Madera), 406 (Fresno) and 407 (6 remaining counties in the San Joaquin Valley)], [Federally Enforceable Through Title V]
  10. If the IC engine is fired on Air Resources Board regulated diesel fuel, with a supplier certified sulfur content less than 0.05% by weight, the operator shall maintain copies of all fuel invoices and supplier certifications. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
  11. If the IC engine is not fired on ARB regulated diesel fuel, with a supplier certified sulfur content less than 0.05% by weight, then the owner or operator shall determine the sulfur content of each delivery of diesel fuel being fired in the IC engine. The sulfur content shall be determined using ASTM method D 2880. [District Rule 2520, 9.3.2], [Federally Enforceable Through Title V]

**Initial TV Permit**

**San Joaquin Valley**  
**Air Pollution Control District**

**PERMIT UNIT:** S-75-18-1

**EXPIRATION DATE:** 08/31/2007

**EQUIPMENT DESCRIPTION:**

EMERGENCY ELECTRICAL GENERATOR POWERED BY 1106 BHP CATERPILLAR DIESEL-FIRED INTERNAL COMBUSTION ENGINE EQUIPPED WITH TURBOCHARGER, INTERCOOLER AND CRANKCASE VENT CARTRIDGE FILTER.

## **PERMIT UNIT REQUIREMENTS**

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1. Operation of the engine for maintenance and testing purposes shall not exceed 200 hours per year. [District Rule 4701 & NSR Rule], [Federally Enforceable Through Title V]
2. Operation of the engine, for other than maintenance purposes, shall be limited to emergency use. [District Rule 4701 and District NSR Rule], [Federally Enforceable Through Title V]
3. The engine shall be operated with the timing retarded four degrees from the manufacturer's standard recommended timing (unless voids UL or Fire Marshall certification). [District NSR Rule], [Federally Enforceable Through Title V]
4. The sulfur content of the diesel fuel used shall not exceed 0.05% by weight. [District Rule 4801 & NSR Rule], [Federally Enforceable Through Title V]
5. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201], [Federally Enforceable Through Title V]
6. If the engine exhibits visible emissions greater than 5% opacity, District-witnessed compliance testing for particulate matter emissions shall be conducted by an independent testing laboratory. [District NSR Rule], [Federally Enforceable Through Title V]
7. The results of each source test shall be submitted to the District within 60 days thereafter. [District Rule 1081], [Federally Enforceable Through Title V]
8. The permittee shall maintain records of hours of operation and of the sulfur content of the diesel fuel used and shall make such records readily available to District staff upon request. [District NSR Rule], [Federally Enforceable Through Title V]
9. Sulfur compound emissions shall not exceed 0.2% by volume, 2000 ppmv, on a dry basis averaged over 15 consecutive minutes. [Rule 404 (Madera), 406 (Fresno) and 407 (6 remaining counties in the San Joaquin Valley)], [Federally Enforceable Through Title V]
10. If the IC engine is fired on Air Resources Board regulated diesel fuel, with a supplier certified sulfur content less than 0.05% by weight, the operator shall maintain copies of all fuel invoices and supplier certifications. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
11. If the IC engine is not fired on ARB regulated diesel fuel, with a supplier certified sulfur content less than 0.05% by weight, then the owner or operator shall determine the sulfur content of each delivery of diesel fuel being fired in the IC engine. The sulfur content shall be determined using ASTM method D 2880. [District Rule 2520, 9.3.2], [Federally Enforceable Through Title V]



## Initial TV Permit

# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** S-75-19-1

**EXPIRATION DATE:** 08/31/2007

**EQUIPMENT DESCRIPTION:**

UNIT ONE: 28,000 GALLON PER MINUTE CAPACITY, WOODEN, INDUCED DRAFT COUNTERFLOW COOLING TOWER INCLUDING FOUR 2-SPEED FAN MOTORS AND TWO MAIN CIRCULATION WATER PUMPS.

## PERMIT UNIT REQUIREMENTS

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1. No hexavalent chromium containing compounds shall be added to cooling tower circulation water. [District Rule 7012], [Federally Enforceable Through Title V]
  2. Total electric motor horsepower for this cooling tower shall not exceed 1440 HP. [District NSR Rule], [Federally Enforceable Through Title V]

## Initial TV Permit

# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** S-75-20-1

**EXPIRATION DATE:** 08/31/2007

**EQUIPMENT DESCRIPTION:**

UNIT TWO: 18,000 GALLON PER MINUTE CAPACITY, WOODEN, INDUCED DRAFT COUNTERFLOW COOLING TOWER INCLUDING TWO 2-SPEED FAN MOTORS, TWO MAIN CIRCULATION WATER PUMPS, AND TWO COMPONENT COOLING WATER CIRCULATION PUMPS.

## PERMIT UNIT REQUIREMENTS

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1. No hexavalent chromium containing compounds shall be added to cooling tower circulation water. [District Rule 7012], [Federally Enforceable Through Title V]
2. Total electric motor horsepower for this cooling tower shall not exceed 1200 HP. [District NSR Rule], [Federally Enforceable Through Title V]

**Initial TV Permit**

**San Joaquin Valley**  
**Air Pollution Control District**

**PERMIT UNIT:** S-75-21-1

**EXPIRATION DATE:** 08/31/2007

**EQUIPMENT DESCRIPTION:**

EMERGENCY FUEL FEED SYSTEM INCLUDING 12'X5'X8' FUEL RECEIVING HOPPER SERVING UNITS 1 & 2, 48' SCREW CONVEYOR, AND WATER/SURFACTANT SPRAYS AT HOPPER RIM AND MATERIAL TRANSFER POINTS FROM SCREW CONVEYOR TO BELT CONVEYORS BC-8 AND BC-15

## **PERMIT UNIT REQUIREMENTS**

1. Operation shall be equipped with 12' by 5' by 8' receiving hopper, 48' long screw conveyor, and water/surfactant sprays at hopper rim and material transfer points from screw conveyor to belt conveyors BC-8 and BC-15. [District NSR Rule], [Federally Enforceable Through Title V]
2. There shall be no visible emissions of 5% opacity or greater from loading of the hopper and material transfer points. [District NSR Rule], [Federally Enforceable Through Title V]
3. Fabric collector #1 shall be operated whenever material is being transferred from emergency fuel system. [District NSR Rule], [Federally Enforceable Through Title V]
4. Water/surfactant sprays shall be in operation whenever emergency fuel system is operating. [District NSR Rule], [Federally Enforceable Through Title V]
5. Emergency fuel system throughput shall not exceed 35 tons/hr. [District NSR Rule], [Federally Enforceable Through Title V]
6. Permittee shall maintain records of emergency fuel system throughput and shall make such records readily available for District inspection upon request. [District NSR Rule & Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
7. Visible emissions shall be inspected annually during operation. If visible emissions are observed, corrective action shall be taken to eliminate visible emissions. If visible emissions cannot be corrected within 24 hours, a visible emissions test using EPA Method 9 shall be conducted. [District Rule 2520, 9.3.2], [Federally Enforceable Through Title V]
8. Dust collector system shall be thoroughly inspected annually for any evidence of particulate matter leaks and shall be repaired as needed. [District Rule 2520, 9.3.2], [Federally Enforceable Through Title V]
9. Dust collector filters shall be thoroughly inspected at least annually when the unit is not in operation for tears, scuffs, abrasions, holes, or any evidence of particulate matter leaks and shall be replaced as needed. [District Rule 2520, 9.3.2], [Federally Enforceable Through Title V]
10. Records of dust collector maintenance, inspections, and repair shall be maintained. The records shall include identification of the equipment, date of inspection, corrective action taken, and identification of the individual performing the inspection. [District Rule 2520, 9.4.2], [Federally Enforceable Through Title V]
11. Particulate matter emissions shall not exceed 0.1 gr/dscf in concentration. [District Rule 4201 & Kern County Rule 404], [Federally Enforceable Through Title V]
12. Particulate matter emissions shall not exceed the hourly rate as calculated in District Rule 4202 using the equation  $E = 3.59 \times P^{0.62}$ ; P is less than or equal to 30 tons per hour, or  $E = 17.37 \times P^{0.16}$ ; P is greater than 30 tons per hour. [District Rule 4202], [Federally Enforceable Through Title V]

## Initial TV Permit